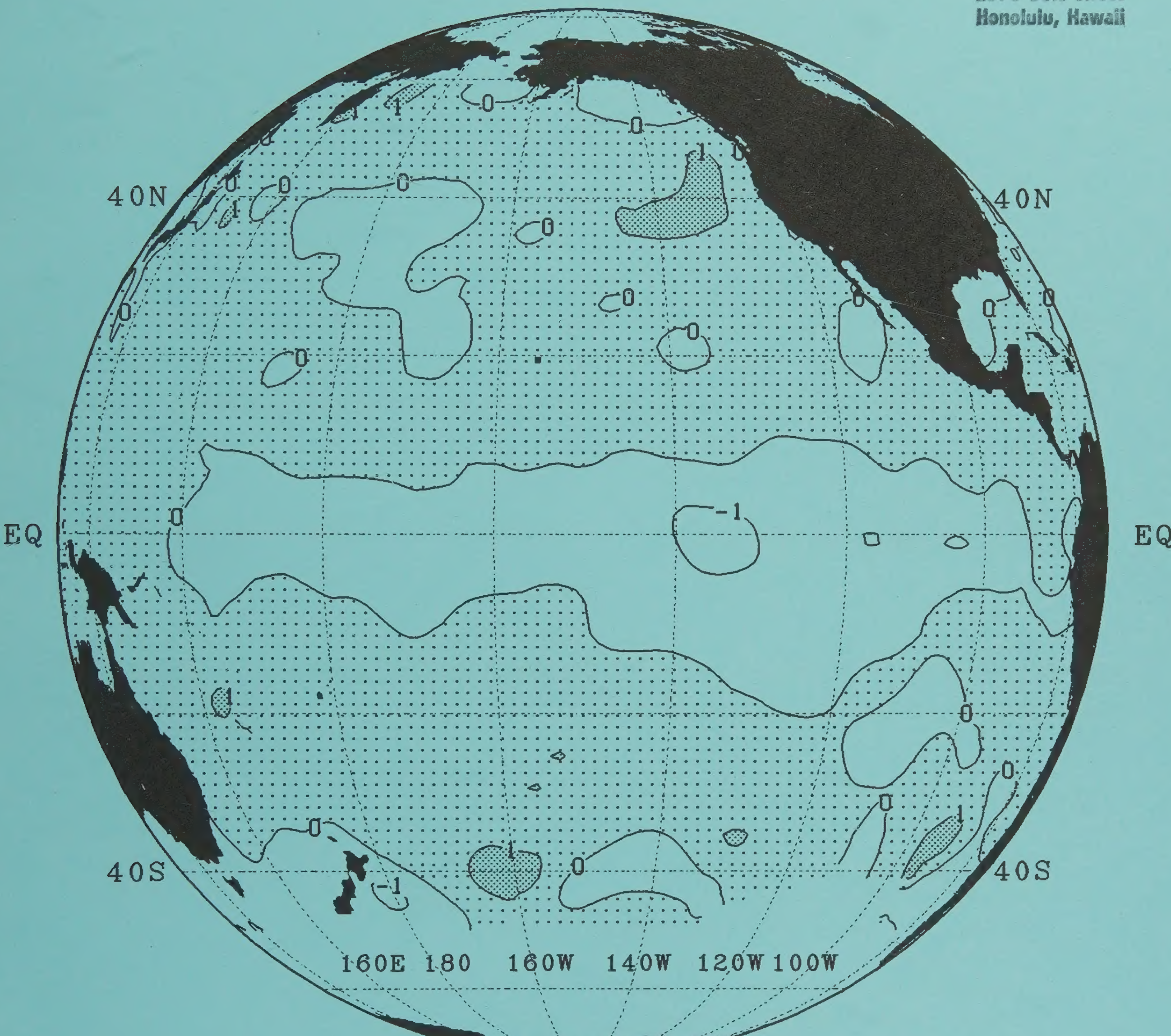
気象庁海洋月報

Monthly Ocean Report

November 1995 (No. 35)



El Niño Monitoring Center
Japan Meteorological Agency

気象庁海洋気象部海洋課
エルニーニョ監視センター

平成7年11月

気象庁海洋月報は、気象庁海洋気象部海洋課エルニーニョ監視センターで作成されています。

本月報に関する問い合わせは、

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表紙は、1995年11月の太平洋の月平均海面水温偏差図です。

陰影部は、平年より高温の海域を示しています。

The figure on the front cover shows the monthly mean SST anomalies for November 1995 in the Pacific Ocean.

Areas of positive anomalies are shaded.

目　　次

Table of Contents

海況の特徴（1995年11月）

太平洋の海況

太平洋赤道域の海面水温は、160°E以東で平年より低く、特に日付変更線付近から100°Wにかけて平年より0.5℃以上低い海域が広がっていた。一方、150°E以西では平年より0.5℃以上高かった。西太平洋熱帯域（0°～14°N，130°E～150°E）では、海面水温が平年より0.5℃以上高い状態が4か月続いている。エルニーニョ監視海域（4°S～4°N,150°W～90°W）の海面水温偏差は、−0.7℃であった（第1表、第1図、第6図）。

太平洋の赤道に沿った表層水温は、水温躍層に沿って西部で正偏差となり、東部では負偏差域が広がっていた（第9図）。

北太平洋では、40°Nに沿った170°Eから170°Wにかけて平年より0.5℃以上低かった。一方、アラスカ湾南方沖で平年より1℃以上高い海域が広がった（第6図）。

日本近海の海況

日本近海の海面水温は、日本海北部及びオホーツク海で平年より1℃以上高かった。一方、日本海中部・南部及び三陸沖では平年より低かった（第24図）。

黒潮は、九州・四国に沿って流れた後、紀伊半島から東に向かい、上旬は三宅島付近を経て房総半島沖を東に流れていたが、中旬には八丈島の西を、下旬には八丈島の東を北上する流路に変化した（第27図）。

本州東方の親潮系の冷水（深さ100mで5℃以下）は、沿岸寄りの分枝は41.5°N，144.1°Eまで、沖合の分枝は38.8°N，146.6°Eまで、それぞれ達していた。また、三陸沖の38.3°N，143.6°E付近にも親潮系の冷水が見られた（第26図）。

熱帯の気象

対流活動は、インド洋東部から海洋大陸にかけて平年より活発になり、140°Eより東の赤道付近で平年より不活発になった。赤道付近の850hPaの東西風は、太平洋のほぼ全域で東風偏差が見られ、インド洋東部では顕著な西風偏差がみられた。太平洋上のウォーカー循環は平年より強く、西に偏っていた。南方振動指数（SOI）は、+0.1 だった（第1表、第3～5図、第12図）。

［気象庁長期予報課提供］

HIGHLIGHTS November 1995

Pacific

In the equatorial Pacific, sea surface temperatures (SSTs) were below normal east of 160°E, especially in the region between the date line and 100°W where SSTs were more than 0.5°C below normal. SSTs were more than 0.5°C above normal west of 150°E. Positive SST anomalies greater than 0.5°C have continued in region D (Fig. 1) for the past four consecutive months. The SST index for region B (Fig. 1) was -0.7°C (Table 1 and Figs. 1 and 6) .

Positive subsurface temperature anomalies were found in the western part of the equatorial Pacific, and negative anomalies in the eastern part of the equatorial Pacific along the thermocline (Fig. 9).

In the North Pacific, SSTs were more than 0.5°C below normal along 40°N from 170°E to 170°W. Positive SST anomalies greater than 1°C prevailed south of the Gulf of Alaska (Fig. 6).

Seas adjacent to Japan

SSTs were more than 1°C above normal in the northern part of the Japan Sea and in the Sea of Okhotsk. Negative SST anomalies were found in the central and southern parts of the Japan Sea and off Sanriku (Fig. 24).

The Kuroshio flowed along the coast of Kyushu and Shikoku, then eastward from the Kii Peninsula. After passing near Miyake Island in early November, west of Hachijo Island in the middle of November, and east of Hachijo Island in late November, it flowed eastward off the Boso Peninsula (Fig. 27).

Coastal and off-coastal branches of the Oyashio cold water (below 5°C at a 100 m depth) extended southward to 41.5°N, 144.1°E and 38.8°N, 146.6°E, respectively. The Oyashio cold water was also found off Sanriku centered at 38.3°N, 143.6°E (Fig. 26).

Atmospheric conditions in the tropics

Convective activities were stronger than normal from the eastern part of the Indian Ocean to the Maritime Continent and weaker than normal along the equator east of 140°E. At the lower troposphere, easterly anomalies were observed almost all over the equatorial Pacific, and westerly anomalies dominated over the eastern part of the Indian Ocean. The Walker circulation over the Pacific was stronger than normal and shifted westward. The Southern Oscillation Index (SOI) was near normal (+0.1) (Table 1, Figs. 3-5 and 12).

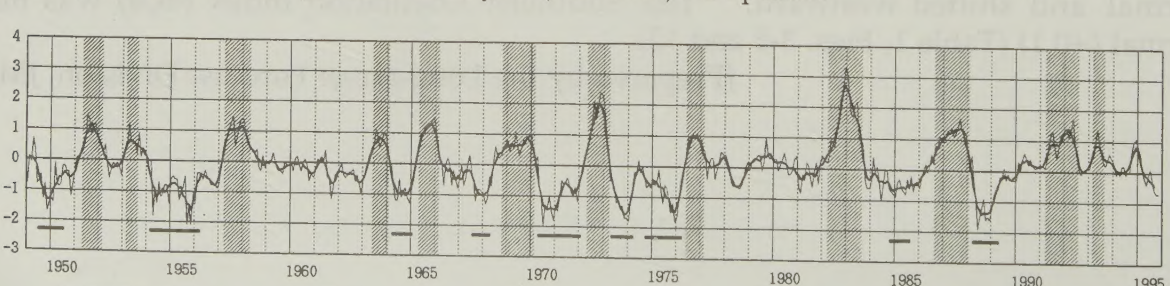
[Prepared by the Long-range Forecast Division, JMA]

Monthly mean SST for region B from 1949 to 1995

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
Normal	25.4	26.2	26.9	27.1	26.6	26.1	25.2	24.6	24.6	24.6	24.6	24.9
1949	24.6	26.3	26.8	27.8	26.9	25.3	24.5	24.1	23.3	23.8	22.9	23.5
1950	24.1	24.8	26.8	26.3	25.7	25.3	25.0	24.4	24.2	24.2	23.4	24.2
1951	25.2	26.3	26.9	27.3	26.9	26.7	26.7	25.9	25.4	25.7	25.8	25.7
1952	25.9	26.7	27.1	27.6	26.5	25.5	24.9	24.5	24.4	24.5	24.4	24.4
1953	25.5	26.6	27.3	28.3	27.2	26.6	25.8	24.8	25.5	24.7	25.0	25.2
1954	25.5	26.2	26.9	25.3	25.7	24.7	24.5	23.4	23.5	23.8	23.8	23.5
1955	24.8	25.7	26.3	26.5	25.3	25.1	24.3	24.1	22.5	23.1	22.5	23.9
1956	24.0	25.8	26.5	26.7	26.0	25.8	24.7	24.0	23.8	23.9	23.8	24.0
1957	24.7	26.1	27.3	27.8	27.4	27.2	26.5	26.1	25.1	25.4	25.8	26.3
1958	26.8	27.2	27.5	27.6	27.0	26.4	25.5	25.0	24.4	24.3	24.8	24.7
1959	25.4	26.1	26.9	27.4	26.6	25.9	24.9	24.3	24.2	24.6	24.5	24.8
1960	25.4	25.9	27.0	27.3	26.5	25.8	25.2	24.7	24.5	24.0	24.2	24.4
1961	25.1	26.3	26.9	27.3	26.6	26.5	24.7	24.1	23.4	23.8	24.2	24.6
1962	25.2	26.2	26.5	26.6	26.2	25.8	24.9	24.4	24.0	24.2	23.9	23.9
1963	24.9	25.8	26.9	27.4	26.9	26.6	26.3	25.5	25.1	25.3	25.6	25.8
1964	25.9	26.3	26.8	26.4	25.4	24.9	24.7	23.5	23.7	23.8	23.5	23.6
1965	24.6	26.0	26.8	27.6	27.4	27.1	26.3	25.8	25.8	25.8	26.0	26.4
1966	26.5	26.8	27.0	27.2	25.9	26.1	25.4	24.6	23.9	24.4	24.1	24.1
1967	25.0	26.2	26.2	26.6	26.6	26.4	25.0	24.1	23.4	23.7	23.8	24.0
1968	24.4	24.9	25.8	26.7	25.9	26.2	25.8	24.9	24.8	24.9	25.1	25.6
1969	26.2	26.6	27.6	27.6	27.7	26.7	25.5	25.2	25.4	25.4	25.5	25.9
1970	26.4	26.5	27.0	27.4	25.9	25.0	23.2	23.3	23.2	23.6	23.1	23.1
1971	24.1	24.7	25.8	26.6	26.0	25.5	24.8	24.0	23.7	23.6	23.9	23.7
1972	24.8	26.1	27.0	27.6	27.3	27.0	26.7	26.7	26.1	26.5	27.0	27.2
1973	27.2	27.2	27.2	26.6	26.2	25.4	24.0	23.5	23.2	23.3	22.9	23.2
1974	23.6	25.0	26.2	26.9	26.4	26.3	25.0	24.6	24.3	23.9	24.0	24.2
1975	25.0	25.6	26.4	27.0	25.8	24.9	24.6	23.9	23.5	23.1	23.4	23.1
1976	23.7	25.1	26.4	26.9	26.6	26.8	26.2	25.5	25.7	25.5	25.7	25.7
1977	26.3	26.8	27.4	26.7	26.7	26.4	25.5	24.2	24.5	24.8	25.1	25.3
1978	25.8	26.4	26.9	26.6	26.0	25.5	24.6	23.9	24.0	24.2	24.6	25.1
1979	25.3	26.4	27.2	27.4	27.0	26.5	25.1	24.8	25.6	25.0	24.9	25.3
1980	25.1	26.5	26.8	27.2	26.9	26.6	25.4	24.4	24.4	24.5	24.9	25.3
1981	24.8	25.4	26.7	26.7	26.8	26.2	24.9	24.0	24.5	24.8	24.1	25.2
1982	25.8	26.5	27.1	27.4	27.5	27.0	25.9	25.7	26.2	26.9	27.1	28.2
1983	28.6	28.6	28.7	28.8	28.7	28.3	26.2	25.6	25.4	24.3	24.0	24.3
1984	24.9	26.6	26.8	27.2	26.2	25.1	24.7	24.6	24.6	24.0	23.9	24.1
1985	24.5	25.8	26.6	26.5	25.9	25.3	24.9	24.0	24.4	23.9	24.2	24.5
1986	24.8	26.0	26.9	27.3	26.5	26.2	25.7	24.8	25.4	25.3	25.7	25.9
1987	26.3	27.3	28.2	28.3	28.0	27.2	26.4	26.0	26.3	25.9	25.9	26.1
1988	26.0	26.2	27.4	26.8	25.7	24.2	23.7	23.4	23.7	23.0	23.1	23.3
1989	24.2	25.4	26.3	26.5	26.4	25.9	25.3	24.3	24.5	24.3	24.3	24.6
1990	25.1	26.5	26.9	27.5	27.2	26.5	25.4	25.0	24.8	24.7	24.7	25.1
1991	25.6	26.4	27.0	27.4	27.4	27.3	26.5	25.4	25.0	25.4	25.8	26.1
1992	26.8	27.6	28.0	28.5	28.3	26.9	25.6	24.6	24.5	24.6	24.7	25.0
1993	25.5	26.6	27.4	28.1	28.0	27.0	25.8	24.9	24.8	25.0	25.2	25.3
1994	25.7	26.1	26.9	27.0	26.8	26.3	25.1	24.6	24.6	25.3	25.6	26.0
1995	26.2	26.8	26.9	26.9	26.2	26.0	25.3	24.3	24.0	23.9	23.9	

表A　　B海域（4°S–4°N, 150°W–90°W）の1949年～1995年の月平均海面水温（℃）
平年値は各月の30年間（1961年～1990年）の平均値

Table A　Monthly mean SST (°C) for region B (4°S-4°N, 150°W-90°W) from 1949 to 1995.
Normals are computed from 30-year (1961-1990) base period.



エルニーニョ現象　El Niño event　　ラニーニャ現象　La Niña event

図A　　B海域の海面水温偏差時系列図（1949年～1995年）

Fig. A　Time series of monthly mean SST anomalies (°C) for region B from 1949 to 1995

DATE	SEA SURFACE TEMPERATURE AND ANOMALY (°C)								SEA LEVEL ANOMALY (cm)					
	Region D 14N-Eq. 130E-150E		Region A 4N-4S 160E-150W		Region B 4N-4S 150W-90W		Region C Eq.-10S 90W-80W		Yap 10N,138E	Rabaul 4S,152E	Majuro 7N,171E	Tarawa 1N,173E	Christ-mas 2N,157W	Santa Cruz 1S, 90W
DEC 94	28.8	-0.1	29.4	+1.2	26.0	+1.1	23.6	+1.0	-1.0	1.1	-5.3	-	5.2	8.8
JAN 95	28.3	-0.2	29.0	+1.0	26.2	+0.8	25.7	+1.4	-3.2	-1.9	2.0	7.4	7.6	6.5
FEB 95	28.2	-0.1	28.9	+0.9	26.8	+0.6	26.1	+0.4	-7.0	-1.5	5.0	5.0	1.6	4.9
MAR 95	28.2	-0.2	28.8	+0.7	26.9	0.0	25.8	-0.1	1.5	6.3	5.6	1.5	0.0	-2.4
APR 95	28.7	-0.1	28.8	+0.6	26.9	-0.2	24.6	-0.5	-6.7	9.5	10.6	0.7	-3.2	-10.9
MAY 95	29.2	+0.1	29.0	+0.5	26.2	-0.4	23.1	-0.8	-3.2	6.4	5.7	3.8	2.1	-7.5
JUN 95	29.6	+0.3	29.0	+0.5	26.0	-0.1	22.2	-0.5	-0.8	5.5	-0.6	2.2	-0.4	-2.4
JUL 95	29.5	+0.3	28.7	+0.2	25.3	+0.1	21.7	+0.1	5.3	10.7	1.0	-0.2	-5.6	-0.3
AUG 95	29.8	+0.7	28.4	0.0	24.3	-0.3	20.5	-0.1	3.8	15.1	6.7	-3.3	-8.9	-2.5
SEP 95	29.7	+0.5	28.1	-0.2	24.0	-0.6	20.7	+0.4	8.9	16.7	7.6	-2.7	-14.3	-2.7
OCT 95	29.8	+0.5	28.0	-0.4	23.9	-0.7	20.4	-0.3	13.0	15.5	4.6	1.1	-6.1	-4.9
NOV 95	29.7	+0.5	27.9	-0.5	23.9	-0.7	21.5	0.0						

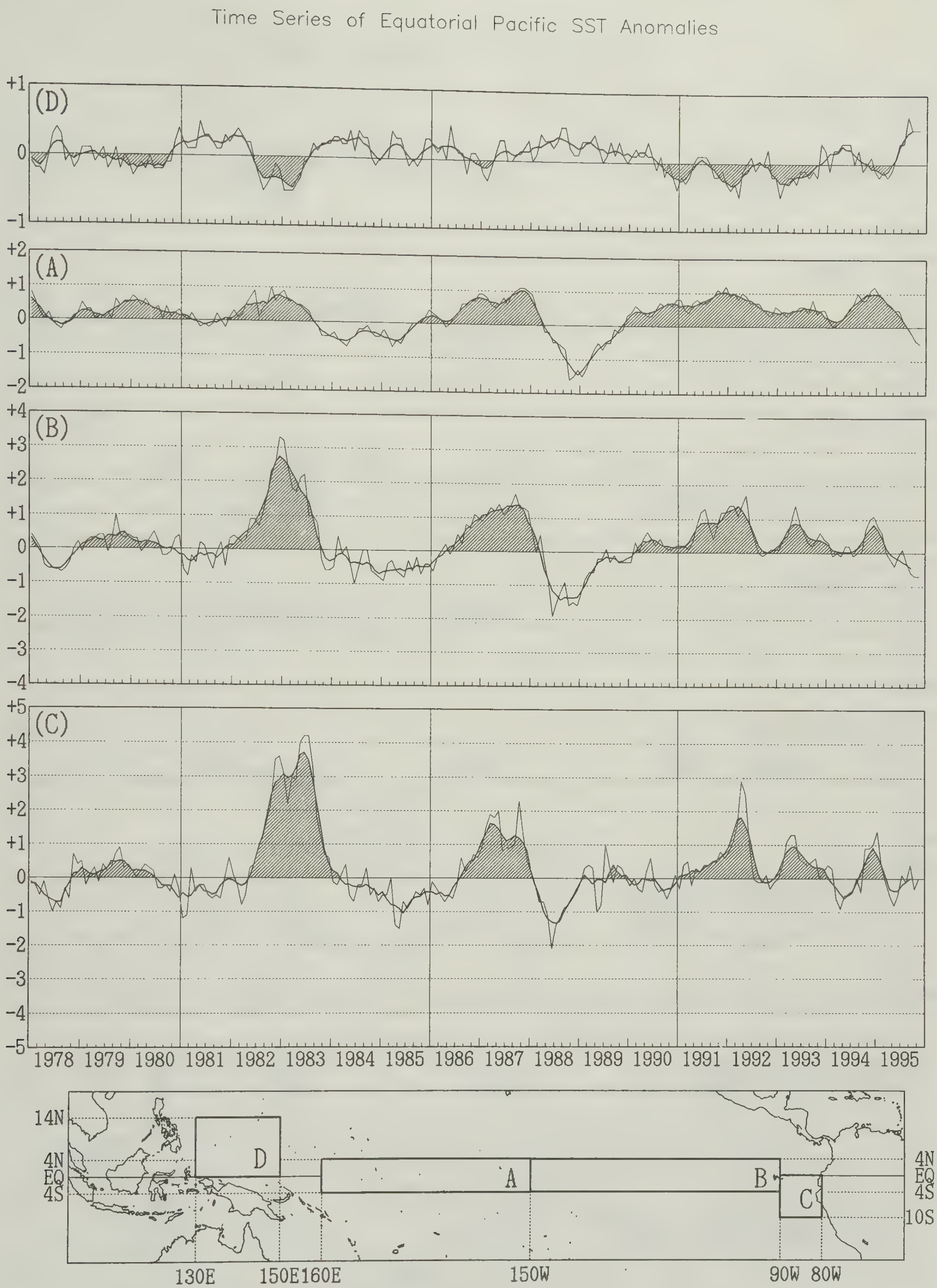
第１表（ａ）　エルニーニョ監視指数

Table 1 (a)　El Niño monitoring indices. Data sources are the El Niño Monitoring Center of JMA for the sea surface temperature and anomaly and SOC for ISLP-Pac, Department of Oceanography, University of Hawaii for the sea level anomaly.

DATE	SOI	SEA LEVEL PRESSURE ANOMALIES		HIGH CLOUD AMOUNT INDEX			EQUATORIAL ZONAL WIND INDEX				
		TAHITI 17°33'S, 149°37'W	DARWIN 12°24'S, 130°52'E	HCLD-PH 20N-10N 110E-140E	HCLD-MC 5N-5S 110E-135E	HCLD-DL 5N-5S 170E-170W	U200-IN 5N-5S 80E-100E	U200-CP 5N-5S 180 -125W	U850-WP 5N-5S 160E-175W	U850-CP 5N-5S 170W-135W	U850-EP 5N-5S 130W-100W
DEC 94	-1.2	-0.3	1.8	-0.7	-0.2	2.6	0.5	0.1	1.2	-0.2	0.1
JAN 95	-0.4	-0.3	0.6	-1.1	-0.4	1.2	-0.4	-0.2	-0.3	-0.6	0.3
FEB 95	-0.2	0.6	1.1	-0.7	-0.3	0.3	-0.8	-0.5	-0.4	0.1	-0.1
MAR 95	0.4	0.3	-0.5	-0.7	0.3	-0.3	-0.2	-0.1	-0.7	-0.4	-0.3
APR 95	-1.4	-1.6	0.0	-1.1	-0.2	-0.6	0.7	0.0	0.0	-0.2	0.1
MAY 95	-1.1	-0.7	0.6	0.3	-1.2	-0.1	-0.9	0.1	0.0	-0.1	0.2
JUN 95	-0.1	0.3	0.4	-1.8	-0.4	-0.7	0.2	0.2	-0.9	-0.4	0.6
JUL 95	0.4	0.4	-0.4	1.5	-0.1	-0.7	-1.1	-0.1	-0.8	-0.8	0.3
AUG 95	0.0	0.4	0.3	0.3	-0.1	-1.1	-0.0	1.4	-1.3	-1.5	-1.0
SEP 95	0.2	0.4	0.0	1.4	0.7	-1.0	-2.0	1.5	-0.9	-1.0	-0.1
OCT 95	-0.3	-0.7	-0.5	0.1	0.2	-1.0	-0.8	0.6	-1.2	-0.7	0.1
NOV 95	0.1	0.1	-0.1	0.1	1.4	-1.2	-2.1	0.8	-1.1	-0.8	-0.8

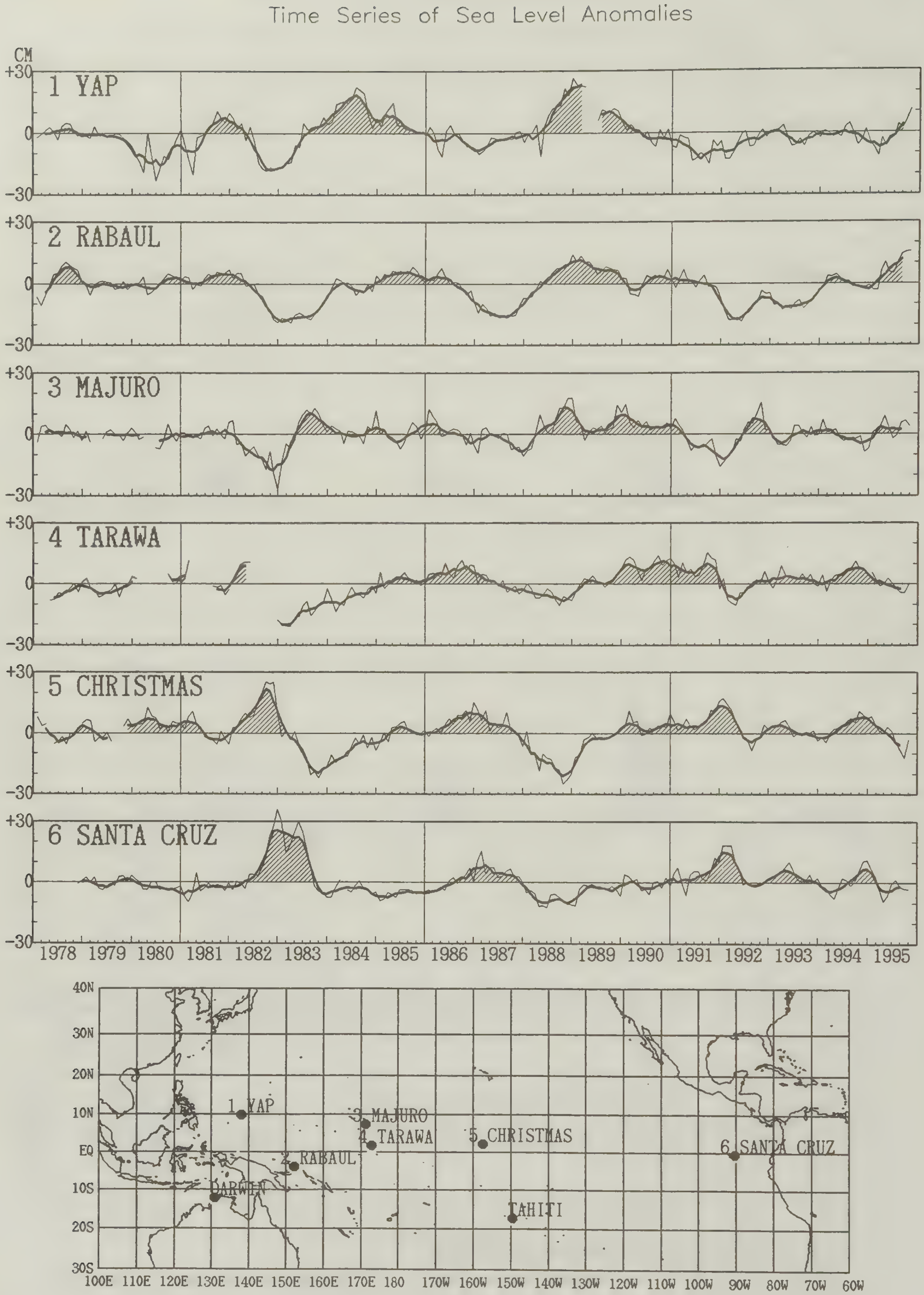
第1表（b）　エルニーニョ監視指数（続き）

Table 1 (b)　El Niño monitoring indices (continued).
Data sources are the Long-range Forecast Division of JMA for the atmospheric conditions.



第1図　太平洋赤道域の海面水温偏差時系列図

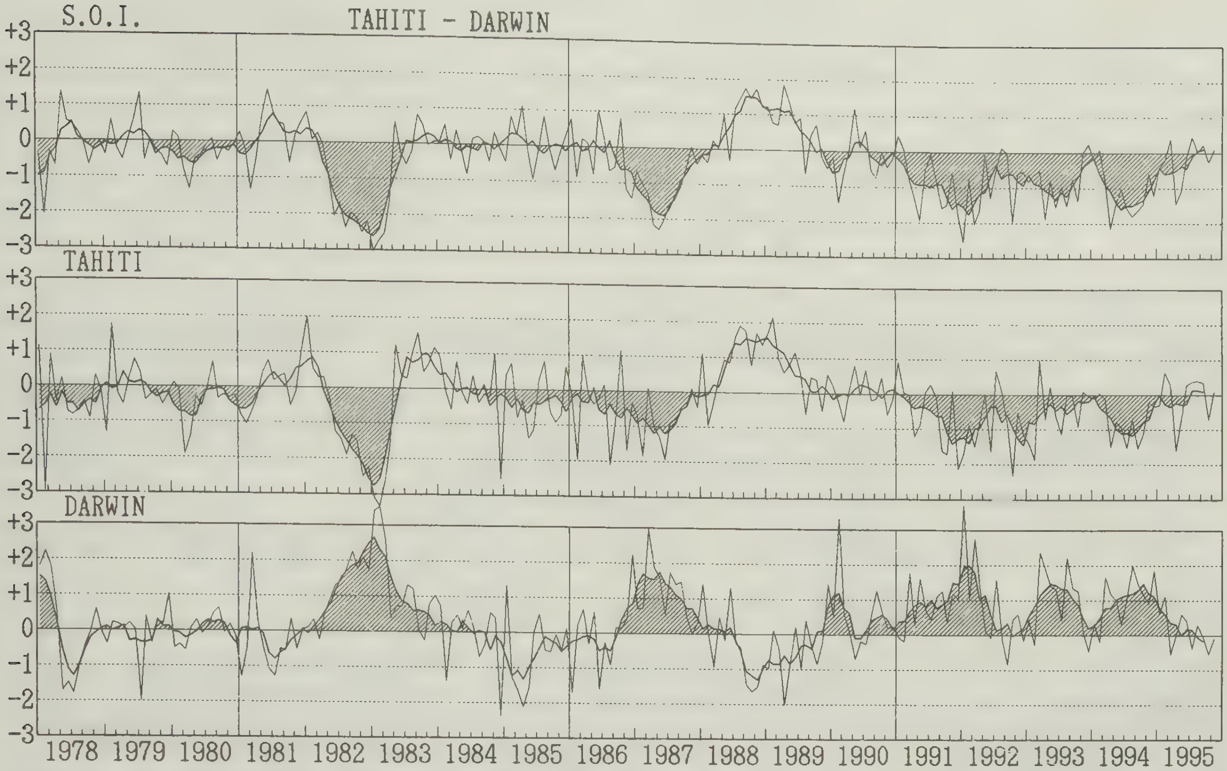
Fig.1 Time series of monthly mean SST anomalies (° C) in the equatorial Pacific Ocean for the areas indicated at the bottom.
Thin lines show the monthly means and thick lines their 5−month running means. Positve anomalies (A, B, C) and negative anomalies (D) are shaded. Anomalies are computed from the JMA climatology (1961−1990).



第2図　太平洋月平均海面水位偏差時系列図

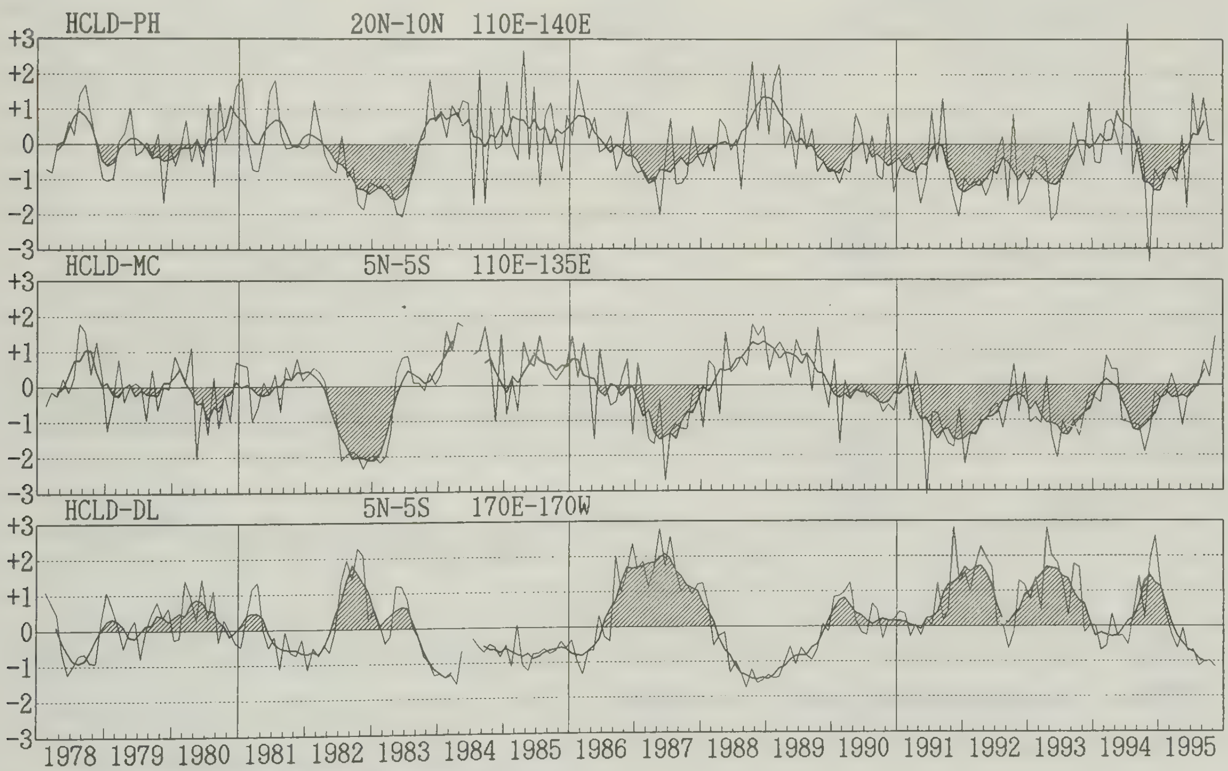
Fig.2 Time series of sea level anomalies computed from 1976–1990 monthly mean values obtained from the stations indicated at the bottom. Thin lines show the monthly mean and thick lines their 5–month running means. Positive anomalies are shaded.

Time Series of SOI and High-Cloud Amount Index



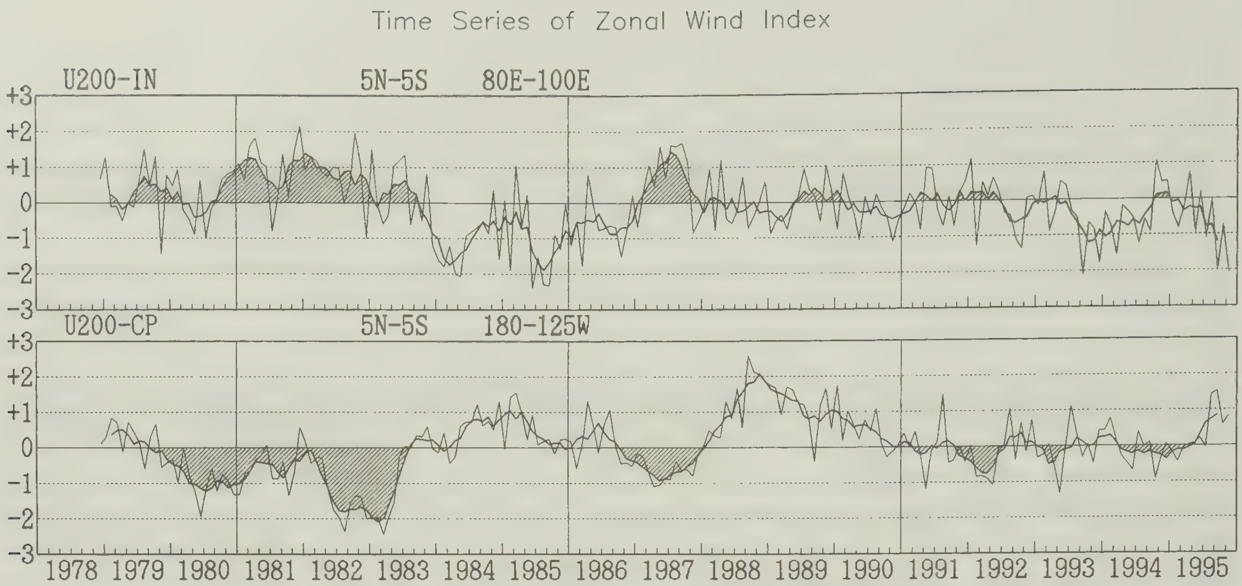
第3図　南方振動指数及び海面気圧偏差時系列図

Fig.3 Time series of the Southern Oscilation Index (top) and monthly mean sea level pressure standardized anomalies at Tahiti (middle) and Darwin (bottom). Thin lines show the monthly mean and thick lines their 5-month running means. Negative anomalies (top, middle) and posotive anomalies (bottom) are shaded. Normals and standard deviations are computed from 1961-1990 base periods. Data sources are the Long-range Forecast Division of JMA.



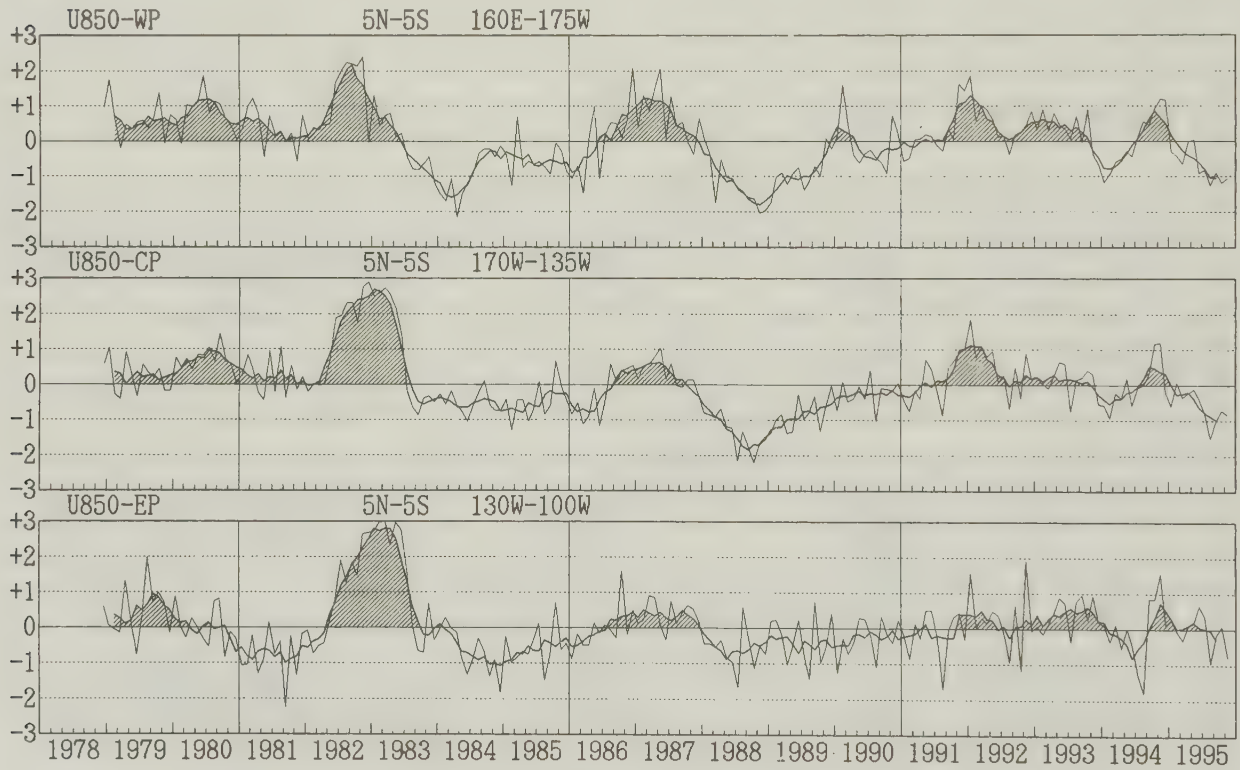
第4図　月平均上層雲量指数時系列図

Fig.4 Time series of high-cloud amount index averaged over the area 20° N-10° N, 110° E-140° E (top), 5° N-5° S, 110° E-135° E (middle), and 5° N-5° S, 170° E-170° W (bottom). Thin lines show the monthly mean and thick lines their 5-month running means. Negative anomalies (top, middle) and positive anomalies (bottom) are shaded. Normals and standard deviations are computed from 1978-1990 base periods. Data sources are the Long-range Forecast Division of JMA.



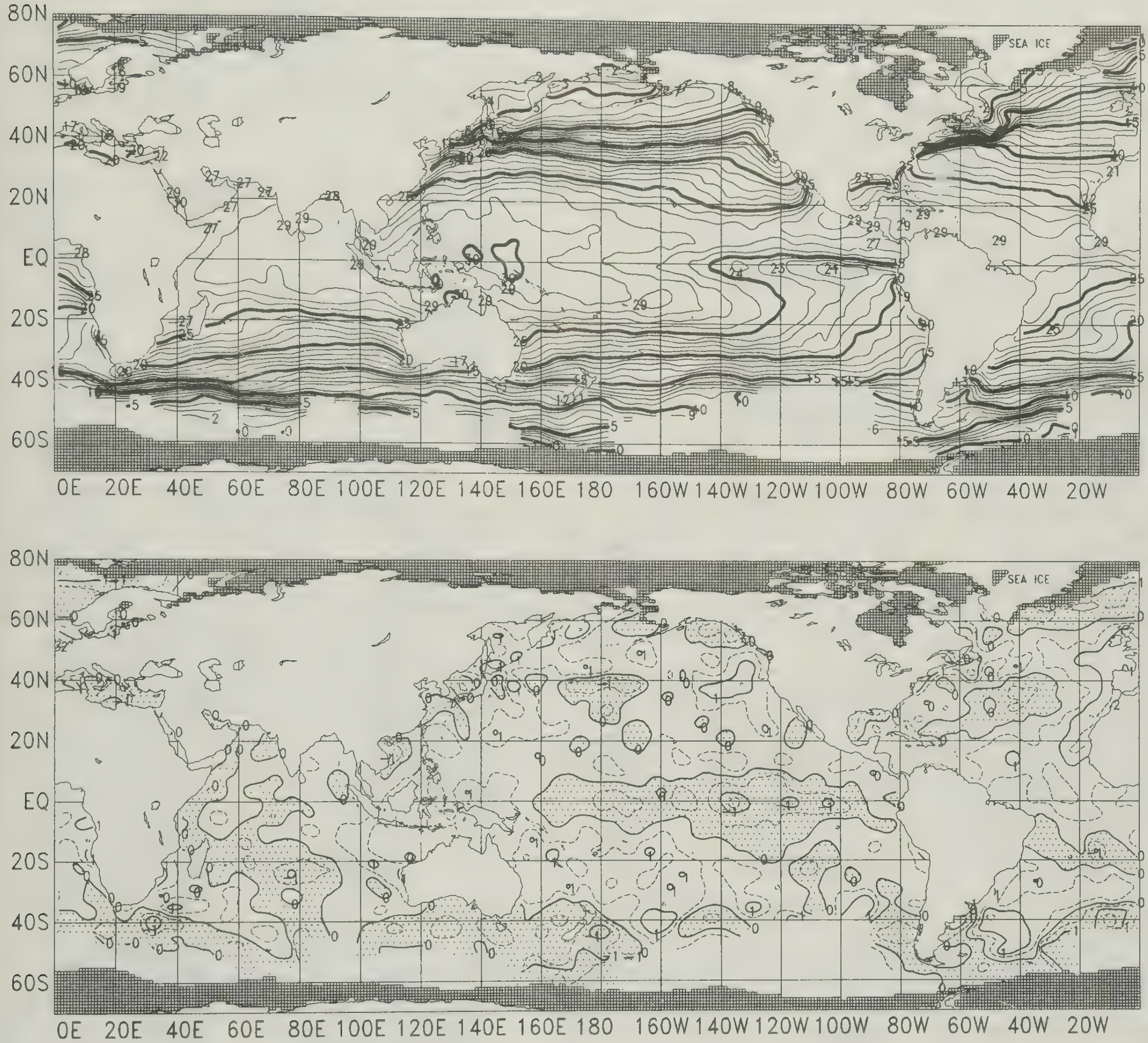
第5図-1　赤道域東西風指数(200ｈＰａ)時系列図

Fig.5−1 Time series of 200hPa zonal wind index averaged over the areas of 5° N−5° S, 80° E−100° E (top), and 5° N−5° S, 180° −125° W (bottom).
Thin lines show the monthly mean and thick lines their 5−month running means.
Positive anomalies (top) and negative anomalies (bottom) are shaded.
Normals and standard deviations are computed from 1979−1990 base periods.
Data sources are the Long−range Forecast Division of JMA.



第5図-2　赤道域東西風指数(850ｈＰａ)時系列図

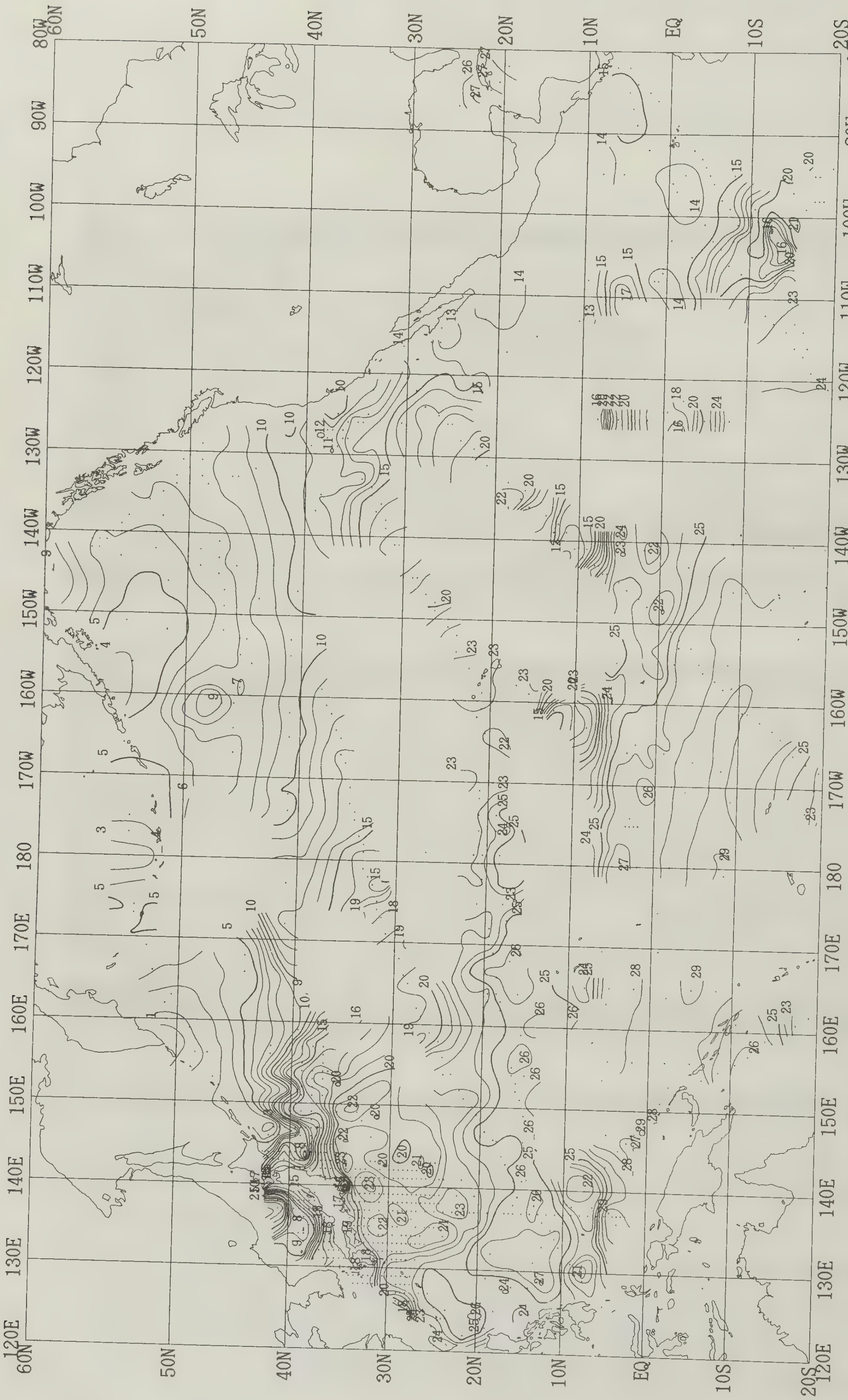
Fig.5−2 Time series of 850hPa zonal wind index averaged over the areas of 5° N−5° S, 160° E−175° W (top), 5° N−5° S, 170° W−135° W (middle), and 5° N−5° S, 130° W−100° W (bottom). Thin lines show the monthly mean and thick lines their 5−month running means. Positive anomalies are shaded.
Normals and standard deviations are computed from 1979−1990 base periods.
Data sources are the Long−range Forecast Division of JMA.



第6図　全球月平均海面水温図（上）及び偏差図（下）（1995年11月）

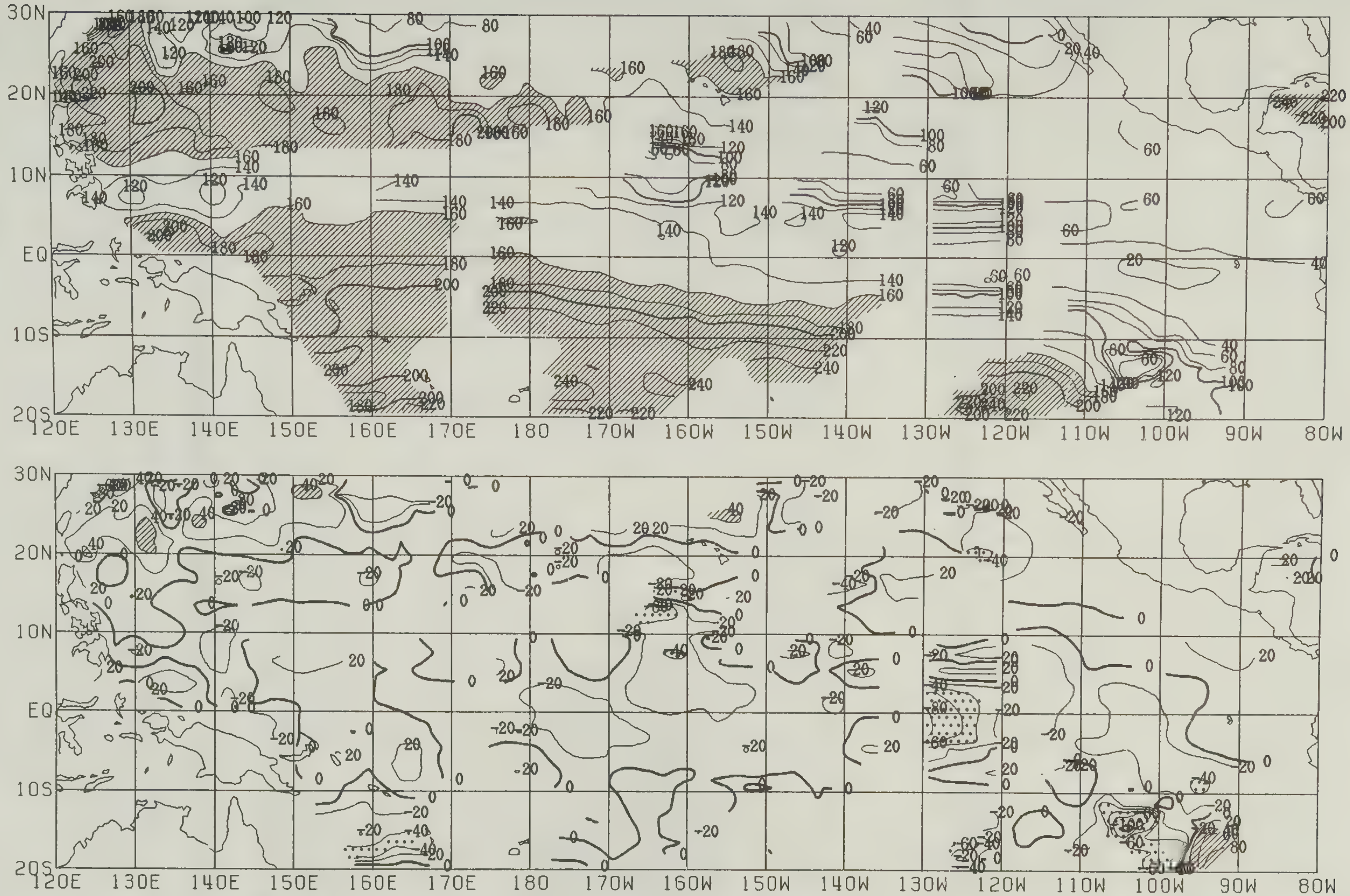
Fig.6 Monthly mean sea surface temperature over the global ocean (top) and anomalies (bottom) for NOV 1995. Anomalies are computed from the JMA climatology (1961–1990) (Marine Department of JMA, 1991, Climatic charts of sea surface temperatures of the western North Pacific and the global ocean). Contour interval is 1°C (top) and additional anomaly contours of ±0.5°C are shown as broken lines. Negative anomalies are spotted. Maximum coverage of sea ice is shaded. Data sources for sea ice are U.S. National Ice Center (polar regions) and JMA (the Sea of Okhotsk).

100m Temperature in the Pacific Ocean



第7図 太平洋表層水温(深さ100m)図 (1995年11月)

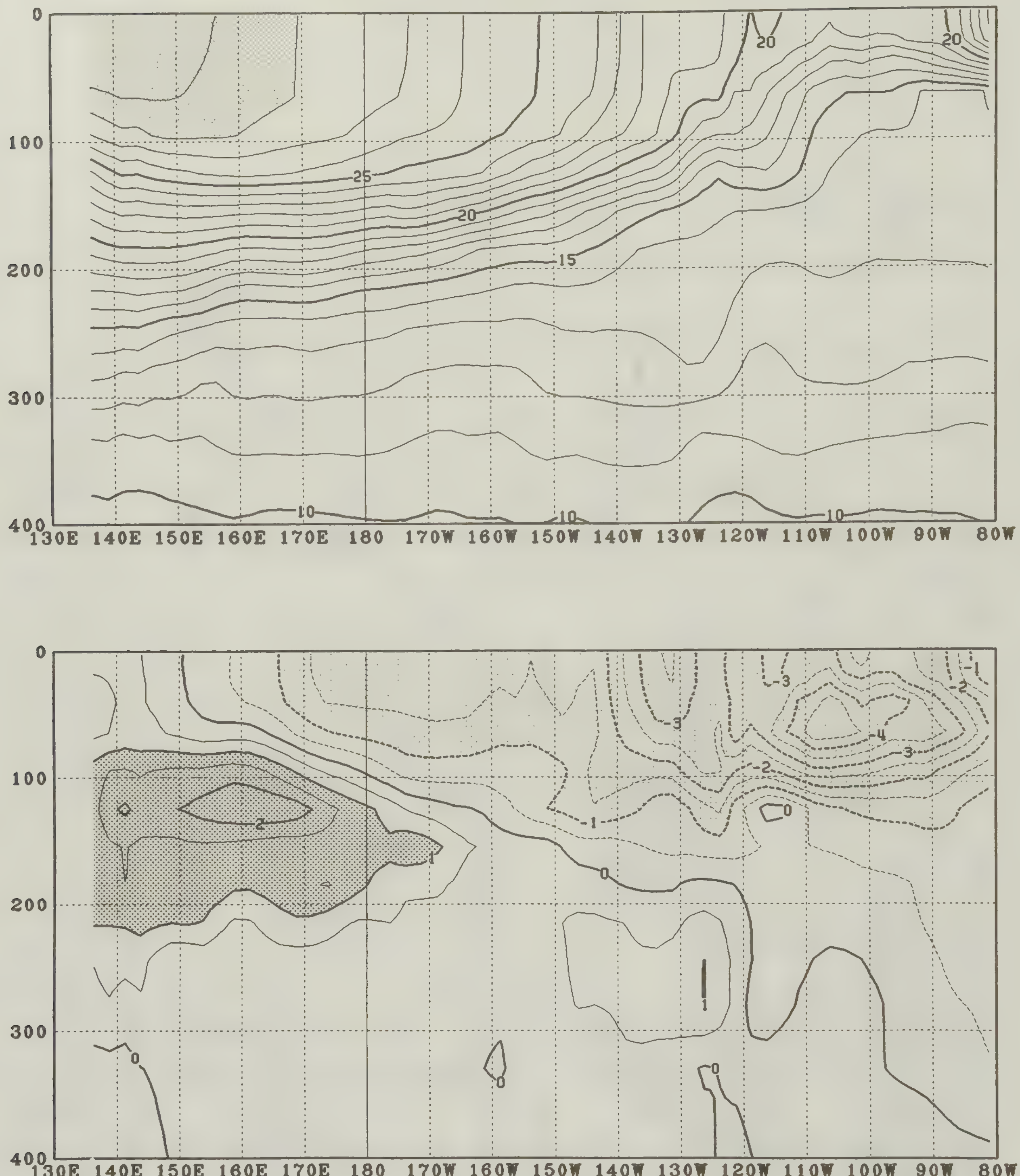
Fig.7 Subsurface (100m) temperatures in the Pacific Ocean for NOV 1995
Contour interval is 1°C. Observation points are denoted by dots.



第8図　太平洋表層水温（20℃深度）図（上）及び偏差図（下）（1995年11月）

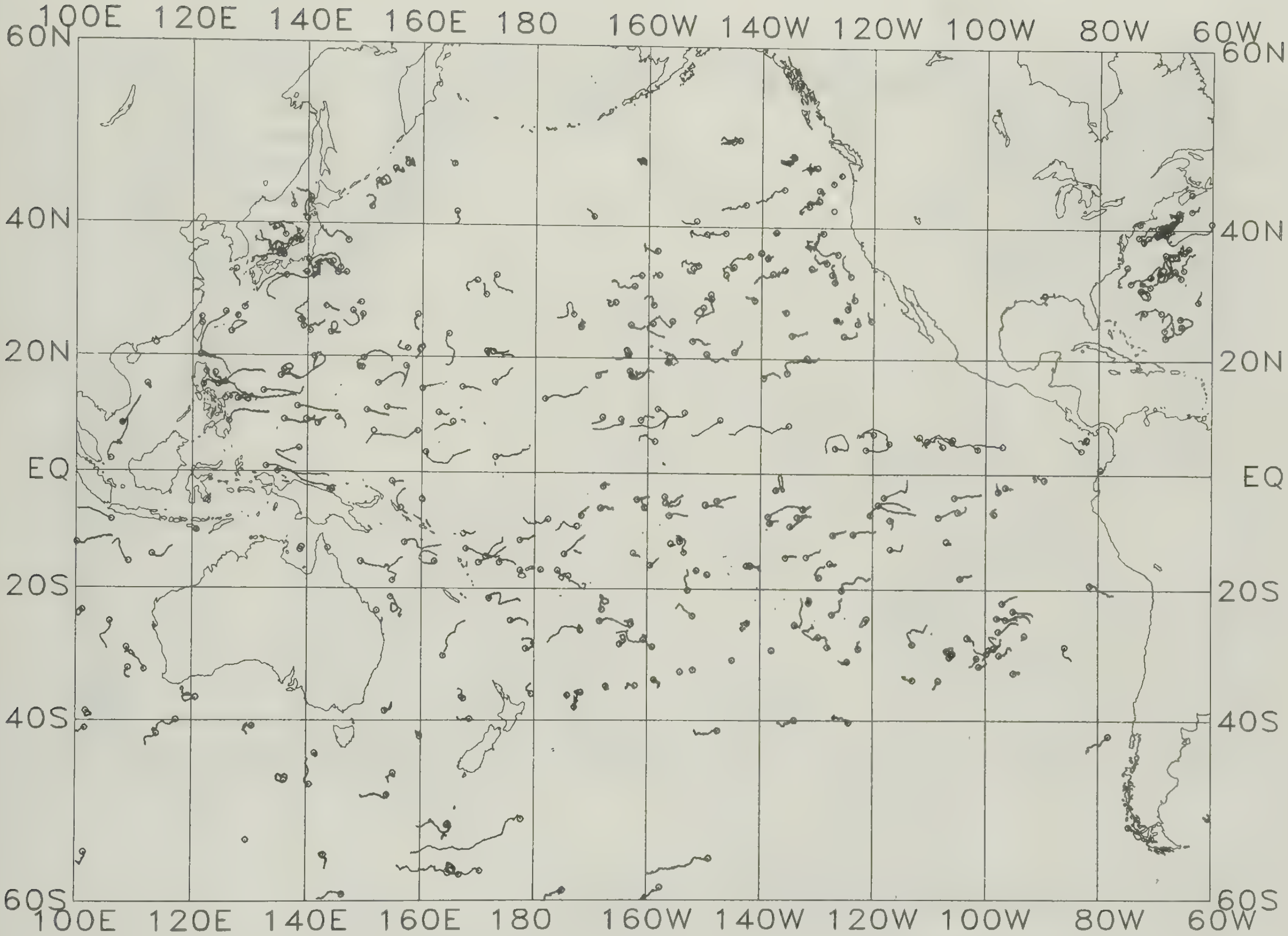
Fig.8　Depth of the 20°C isotherm in the Pacific Ocean (top) and anomalies (bottom) for NOV 1995.　Anomalies are computed from the climatology (Levitus, 1982, Climatological Atlas of the World Ocean, NOAA).　Contour interval is 20m.　Values greater than 160m in top panel are shaded.　In bottom panel values greater than +40m are shaded and values less than −40m are spotted.

Depth–Longitude Section of Equatorial Temperature & Anomalies



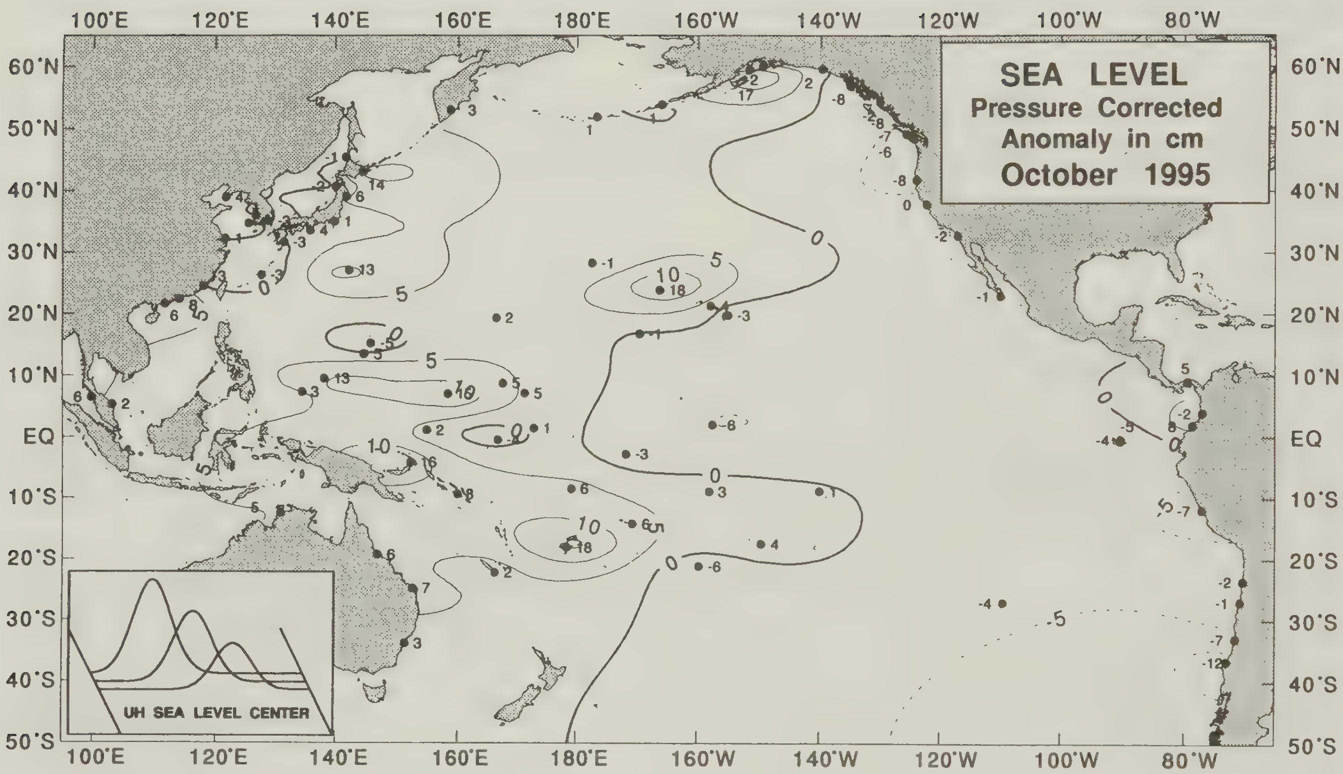
第9図　太平洋赤道に沿う表層水温（上）及び偏差（下）の深度ー経度断面図（1995年11月）

Fig.9 Depth–longitude sections of temperature (top) and anomalies (bottom) along the equator in the Pacific Ocean for NOV 1995. Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 1° C (top) and 0.5° C (bottom). Values greater than 28° C in top panel are shaded. In bottom panel values greater than 1° C are shaded and values less than −1° C are spotted. Anomalies are computed from 1987–1994 base period means.



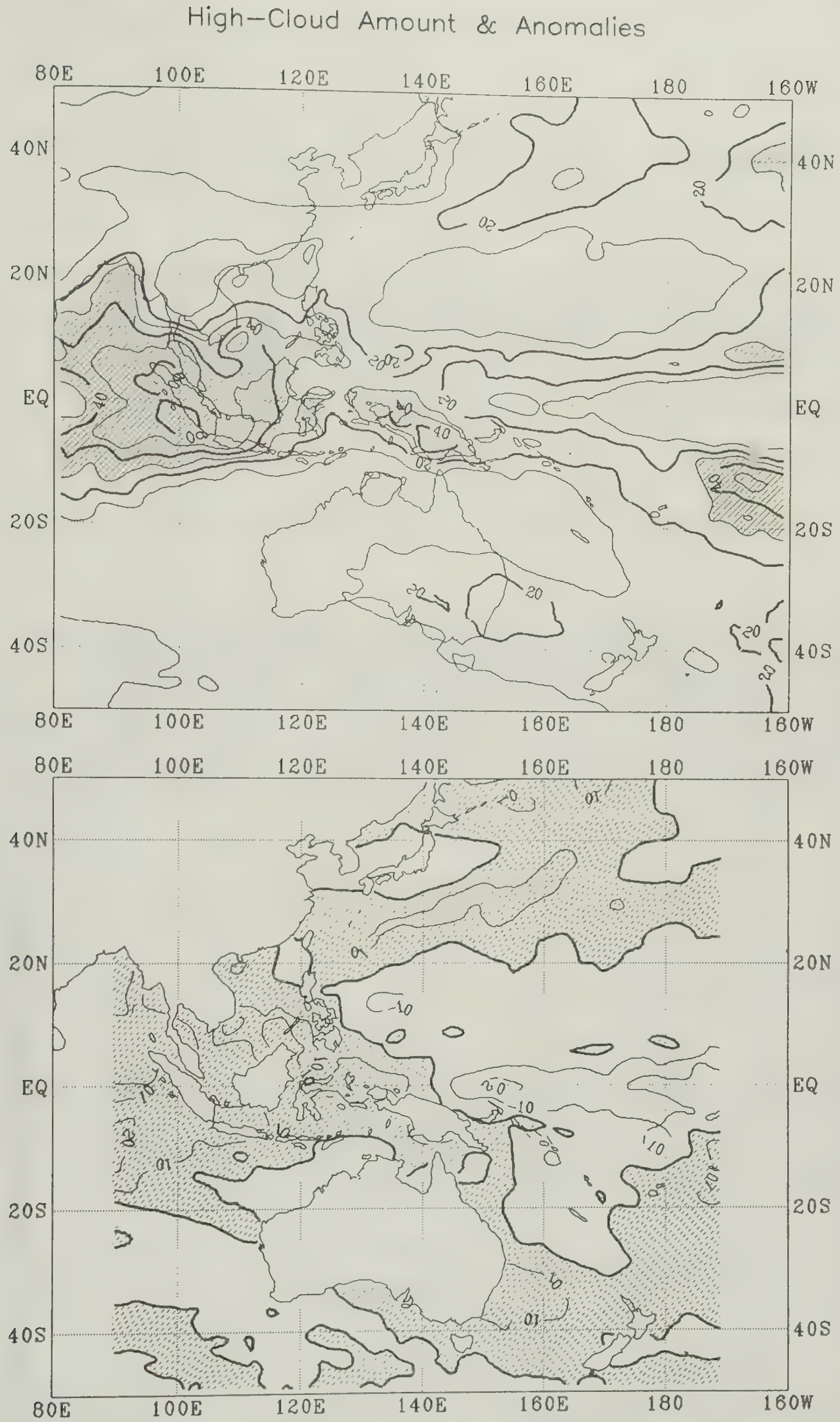
第10図　太平洋ブイ流跡図(1995年11月)

Fig.10 Movements of drifting buoys in the Pacific Ocean during NOV 1995. Each track is for one buoy. Small circles represent last positions for the month.



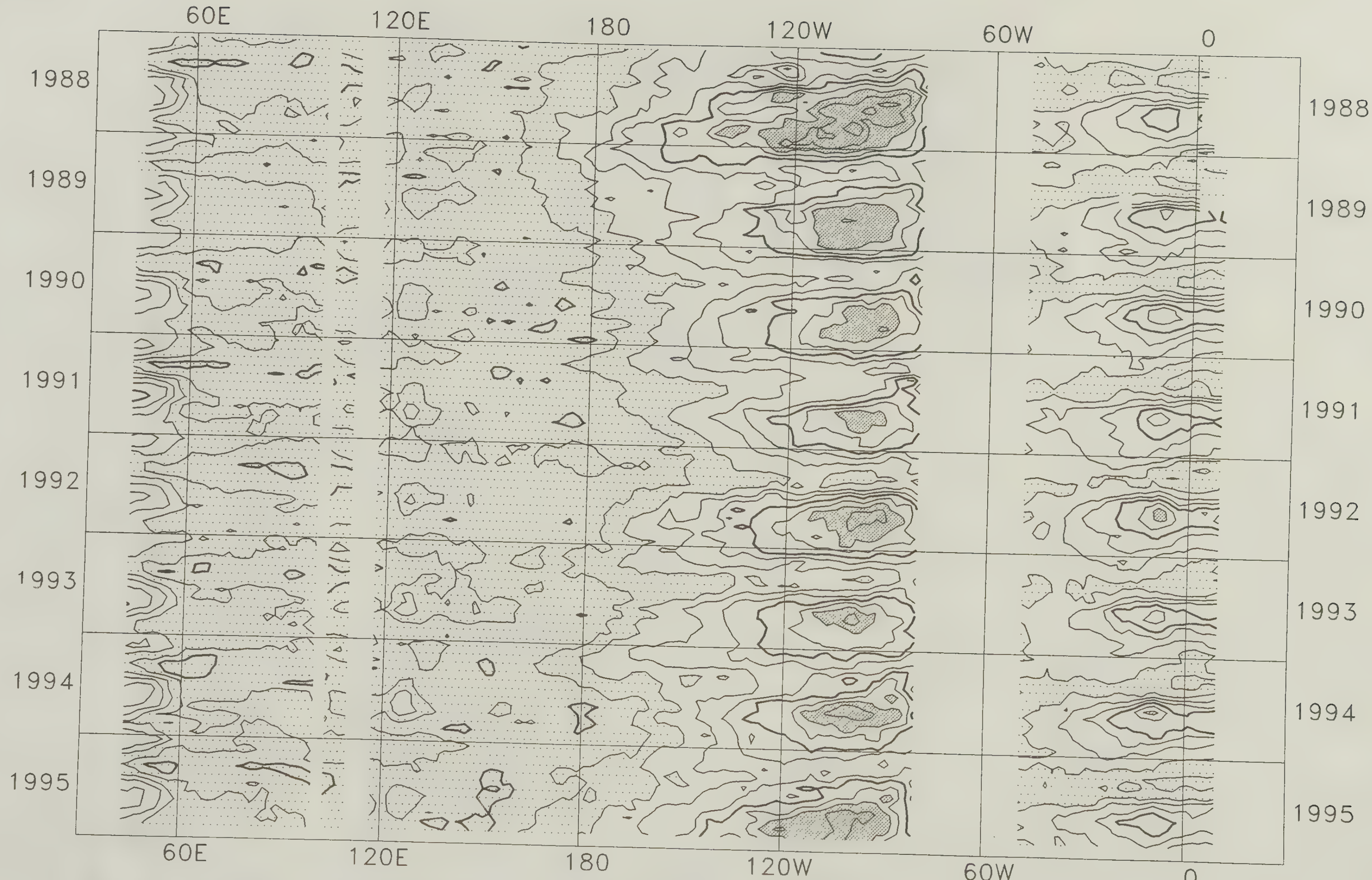
第11図　太平洋海面水位偏差図（ 1995年10月 ）

Fig.11　Monthly sea level anomalies for OCT 1995 obtained from mean sea level (1975–1986) adjusted for atmospheric pressure.
This figure is prepared by the SOC of ISLP–PAC, Dept. of Oceanography, Univ. of Hawaii.



第12図　西太平洋月平均上層雲量分布図及び偏差図（1995年11月）

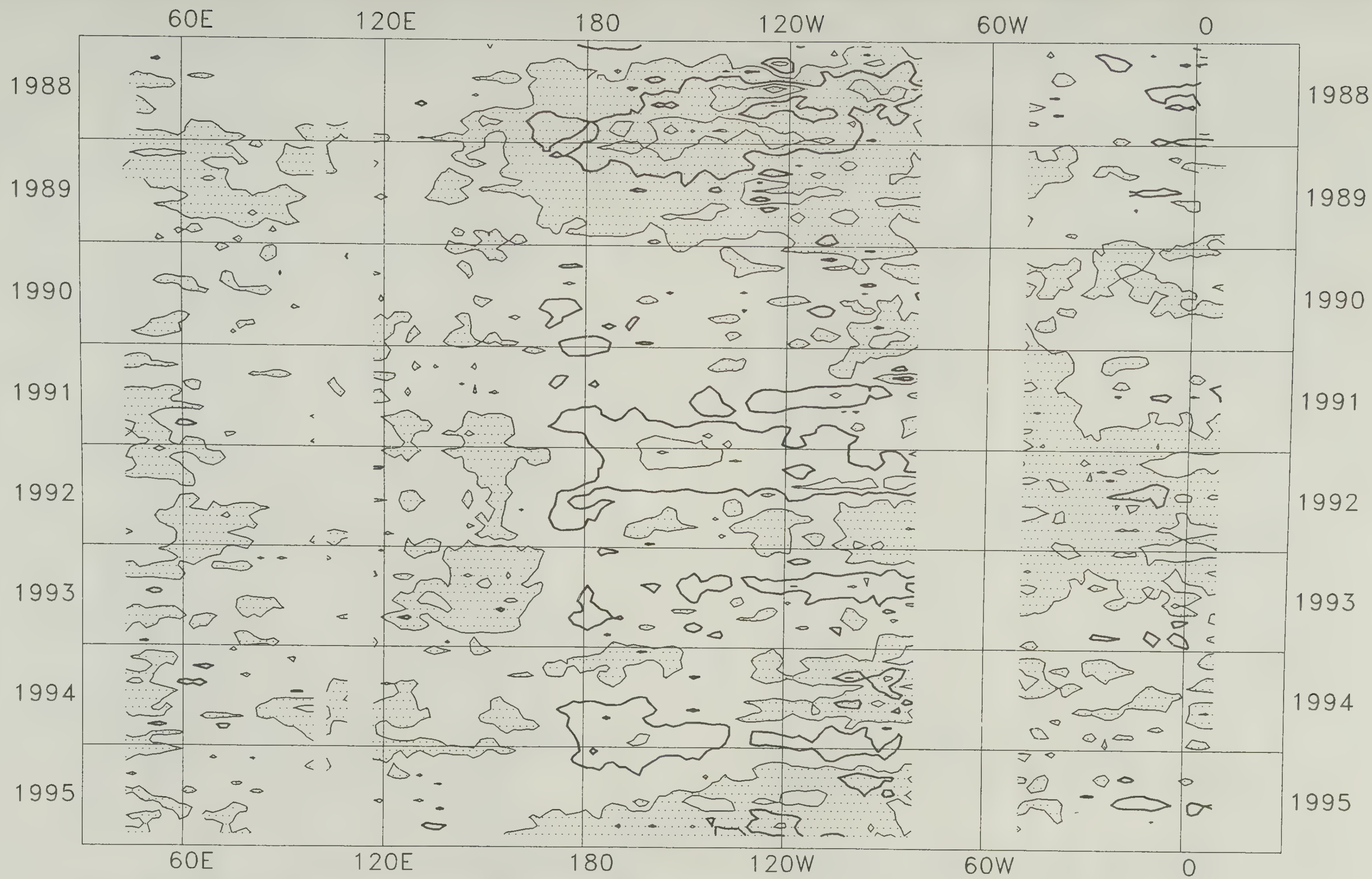
Fig.12 Monthly mean of the high-cloud amount (%, top) and its anomalies (%, bottom) in the western Pacific for NOV 1995. Contour interval is 10%. Areas above 30% are shaded (top) and positive anomalies are stippled (bottom). Anomalies are computed from 1978-1990 base period means. Figures are prepared by the Long-range Forecast Division of JMA.



第13図　赤道に沿う海面水温の時間－経度断面図

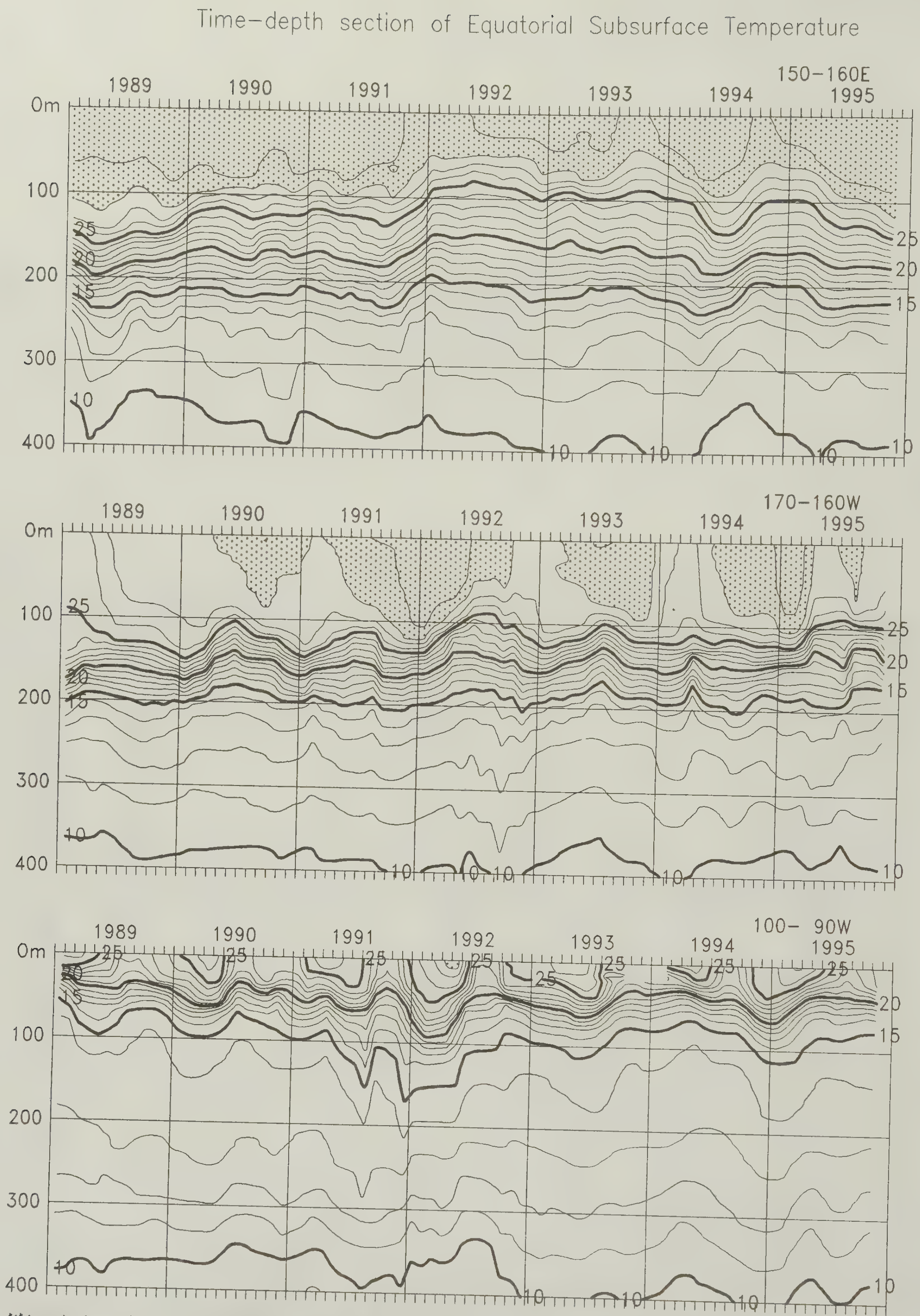
Fig.13 Time–longitude section of SSTs along the equator (2° N–2° S) in the global ocean. Contour interval is 1° C, with thick contour lines at 25 and 30° C. SST values greater than 28° C are spotted and values less than 23° C are shaded.

Time-Longitude Section of SST Anomalies



第14図　赤道に沿う海面水温偏差の時間－経度断面図

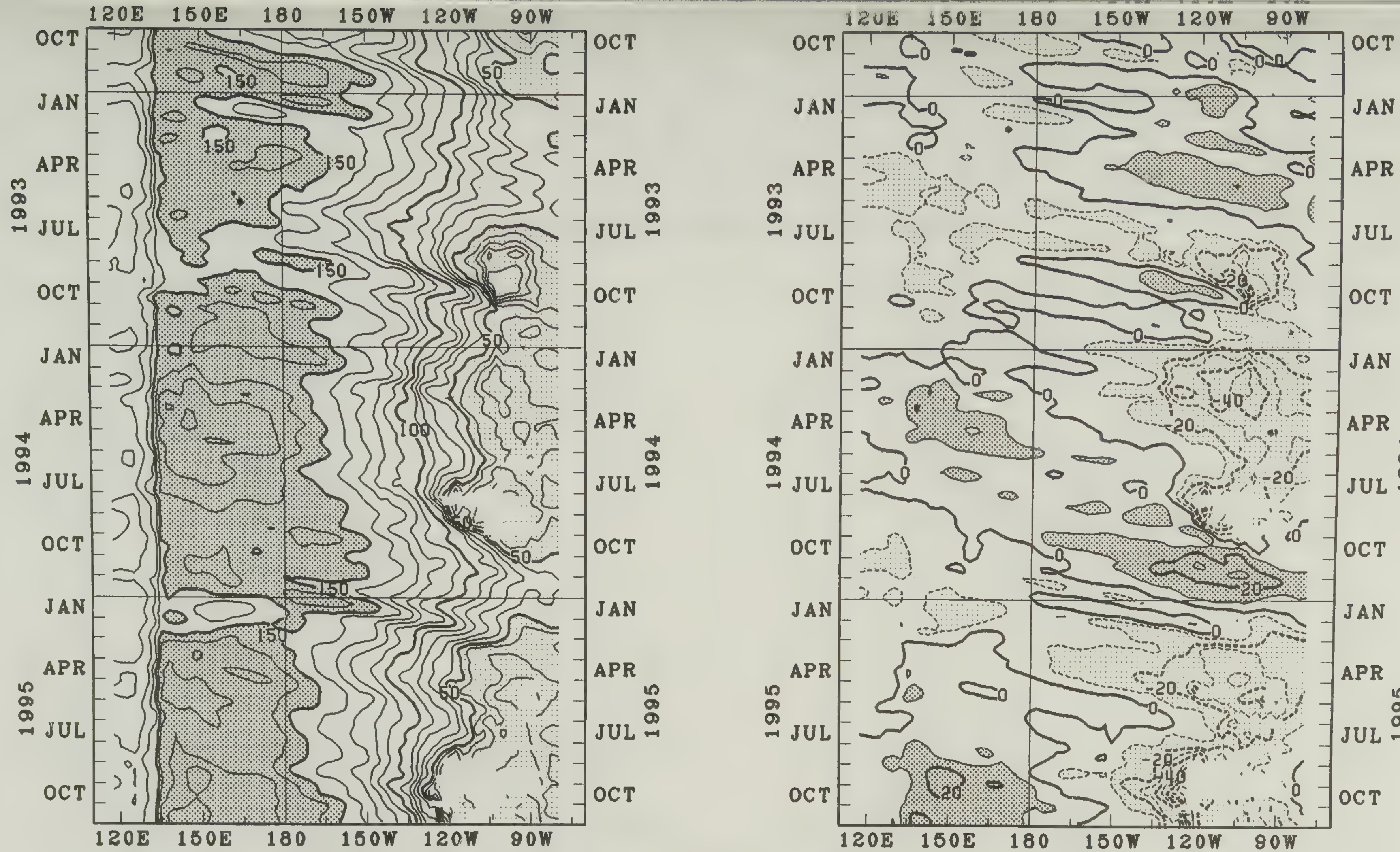
Fig.14 Time-longitude section of SST anomalies along the equator (2° N–2° S) computed from the JMA climatology (1961–1990). Contour interval is 1° C, with thick contour lines at +1° C and −1° C. Negative anomalies are spotted.



第15図　太平洋赤道域の表層水温の時間ー深度断面図
（上：西部、中：中部、下：東部）

Fig.15 Time-depth section of equatorial (2° N-2° S) subsurface temperature for the western Pacific (top, 150-160° E), the central Pacific (middle, 170-160° W) and the eastern Pacific (bottom, 100-90° W). Contour interval is 1° C. Values greater than 28° C are shaded.

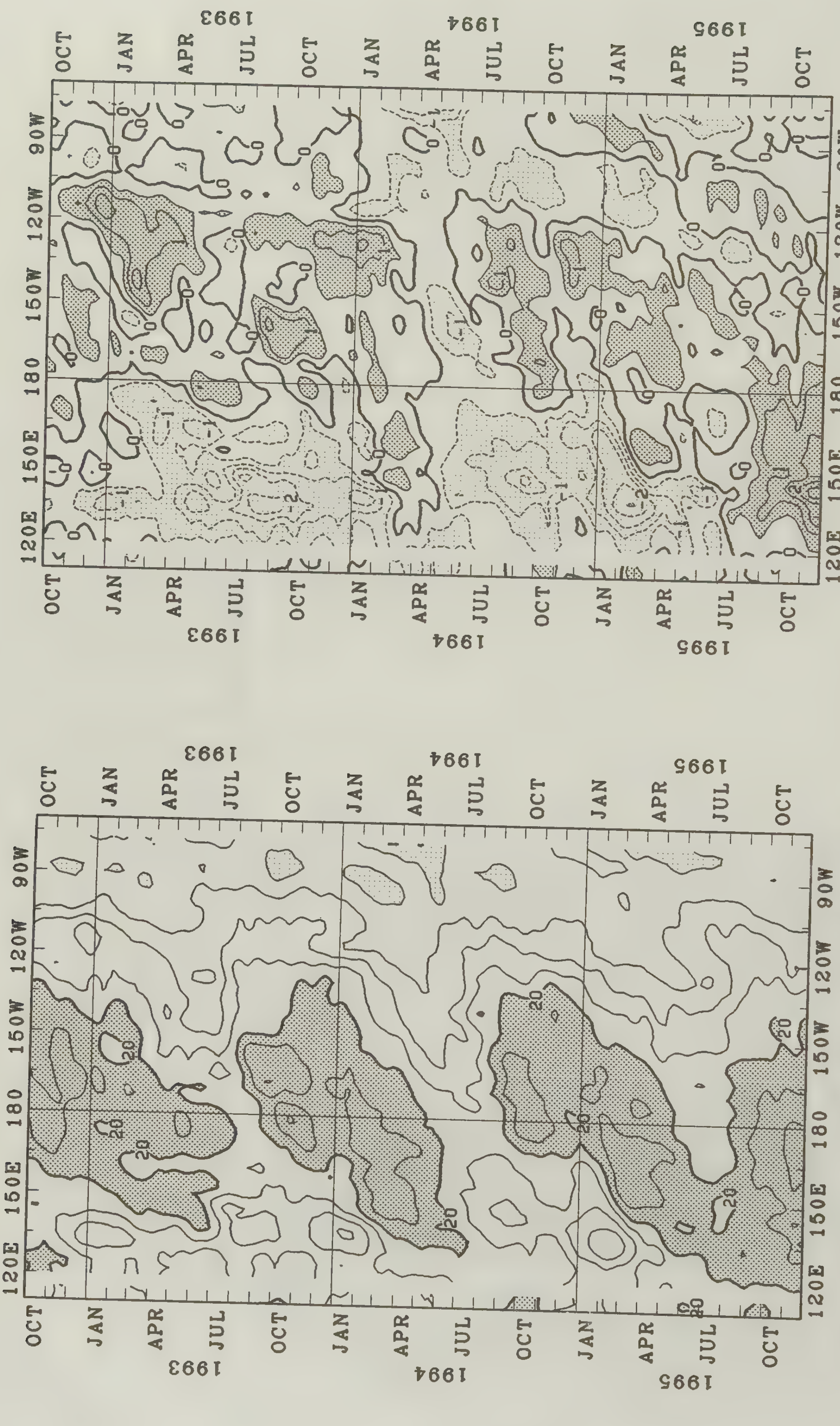
Time−Longitude Section of Depth of 20° C & Anomalies



第16図　太平洋の赤道に沿う20℃深度（左）及び偏差（右）の時間－経度断面図

Fig.16 Time−longitude sections of depth of the 20° C isotherm along the equator (left) and anomalies (right) in the Pacific Ocean. Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 10m. Values in left panel greater than 150m are shaded and values less than 50m are spotted. Dashed contours in right panel indicate negative anomalies. Anomalies are computed from 1987−1994 base period means.

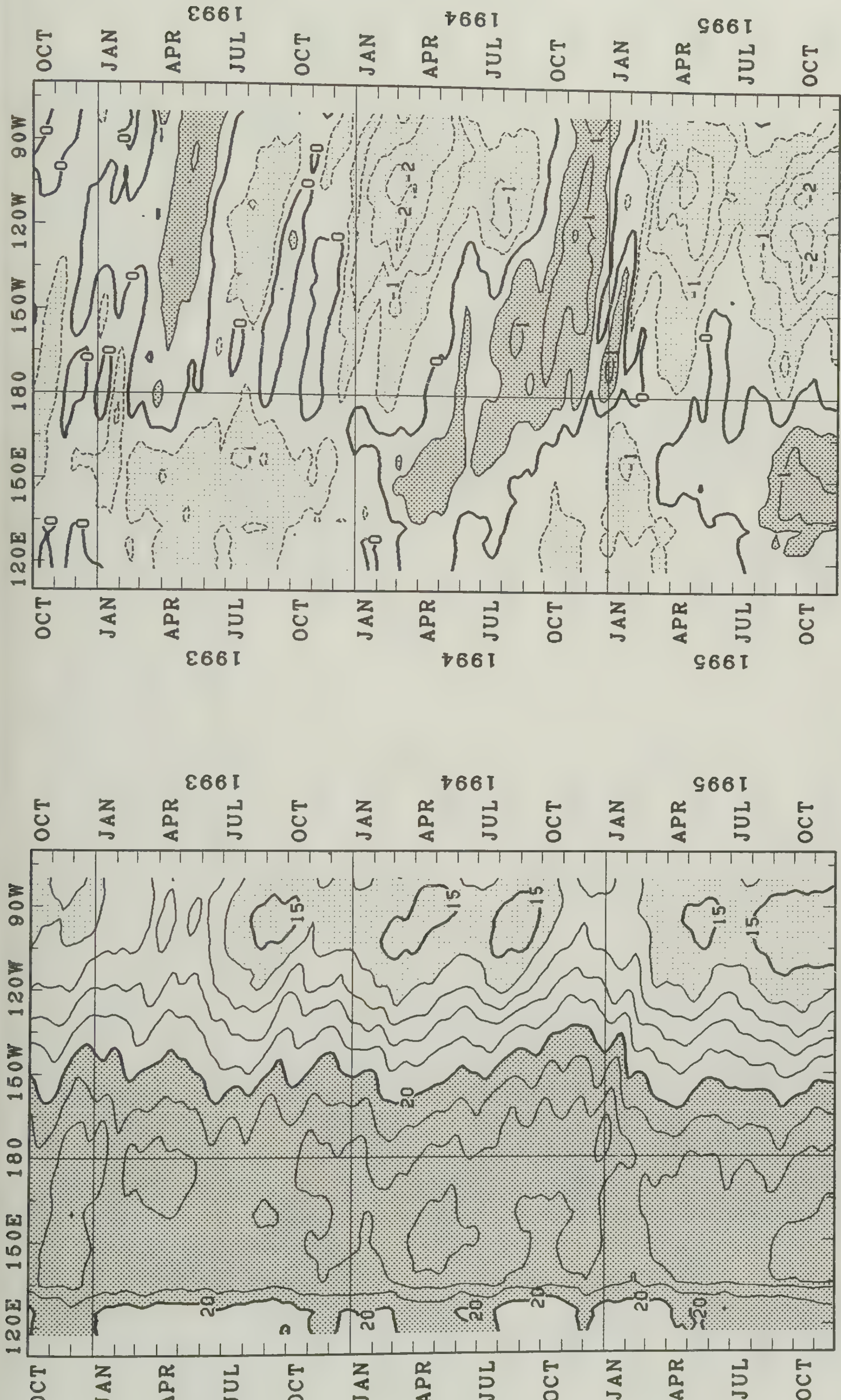
Time-Longitude Section of Ocean Heat Content & Anomalies (6° N)



第17図 太平洋の北緯6度線に沿う海洋表層の貯熱量（左）及び偏差（右）の時間－経度断面図

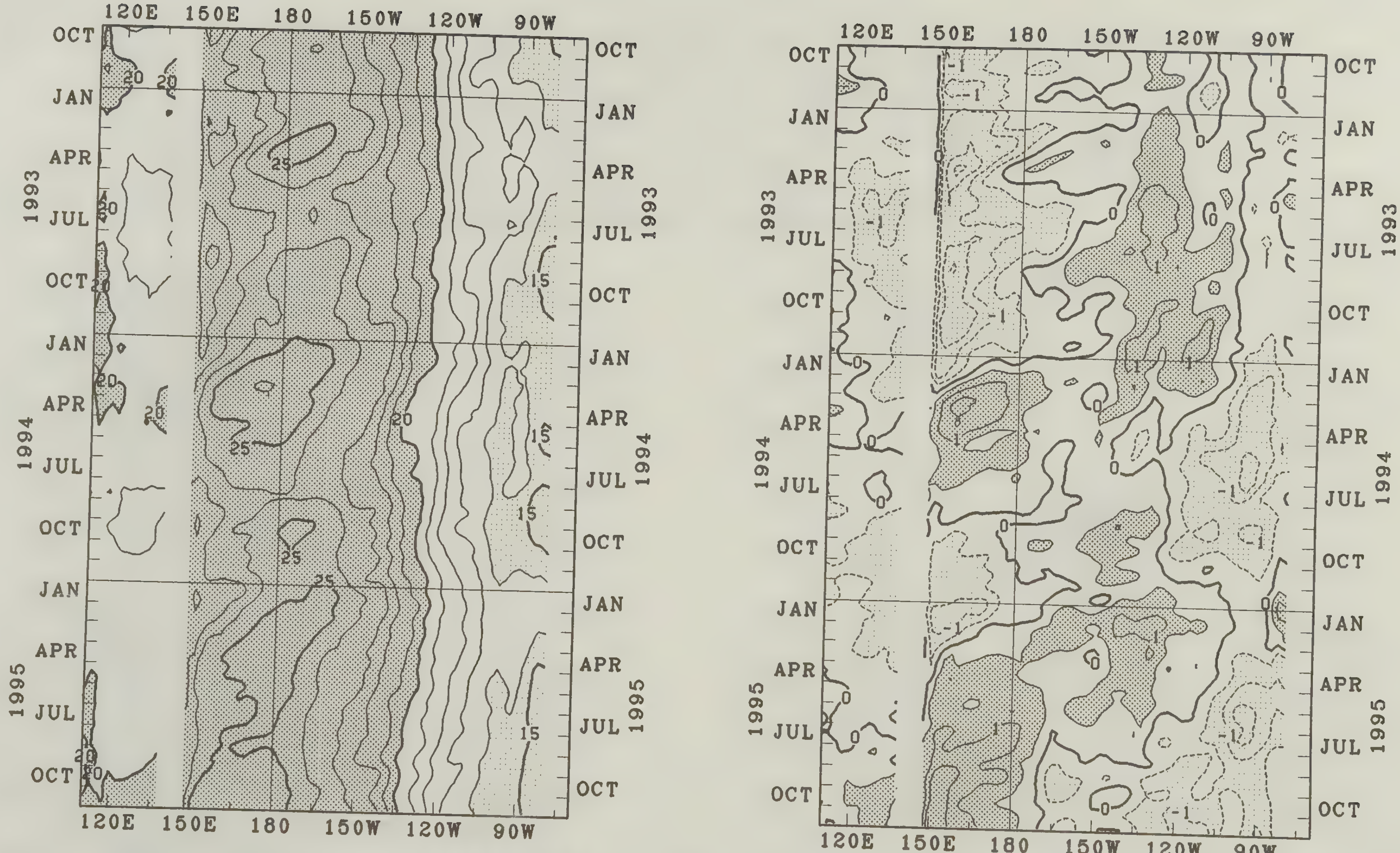
Fig.17 Time-longitude sections of ocean heat content in the upper 260m along 6° N (left) and anomalies (right) in the Pacific Ocean. Data are derived from an Ocean Data Assimilation System of JMA. Contour interval is 1° C (left) and 0.5° C (right). Values in the left panel greater than 20° C are shaded and values less than 16° C are spotted. Dashed contours in right panel indicate negative anomalies. Anomalies are computed from 1987–1994 base period means.

Time–Longitude Section of Ocean Heat Content & Anomalies (Eq.)



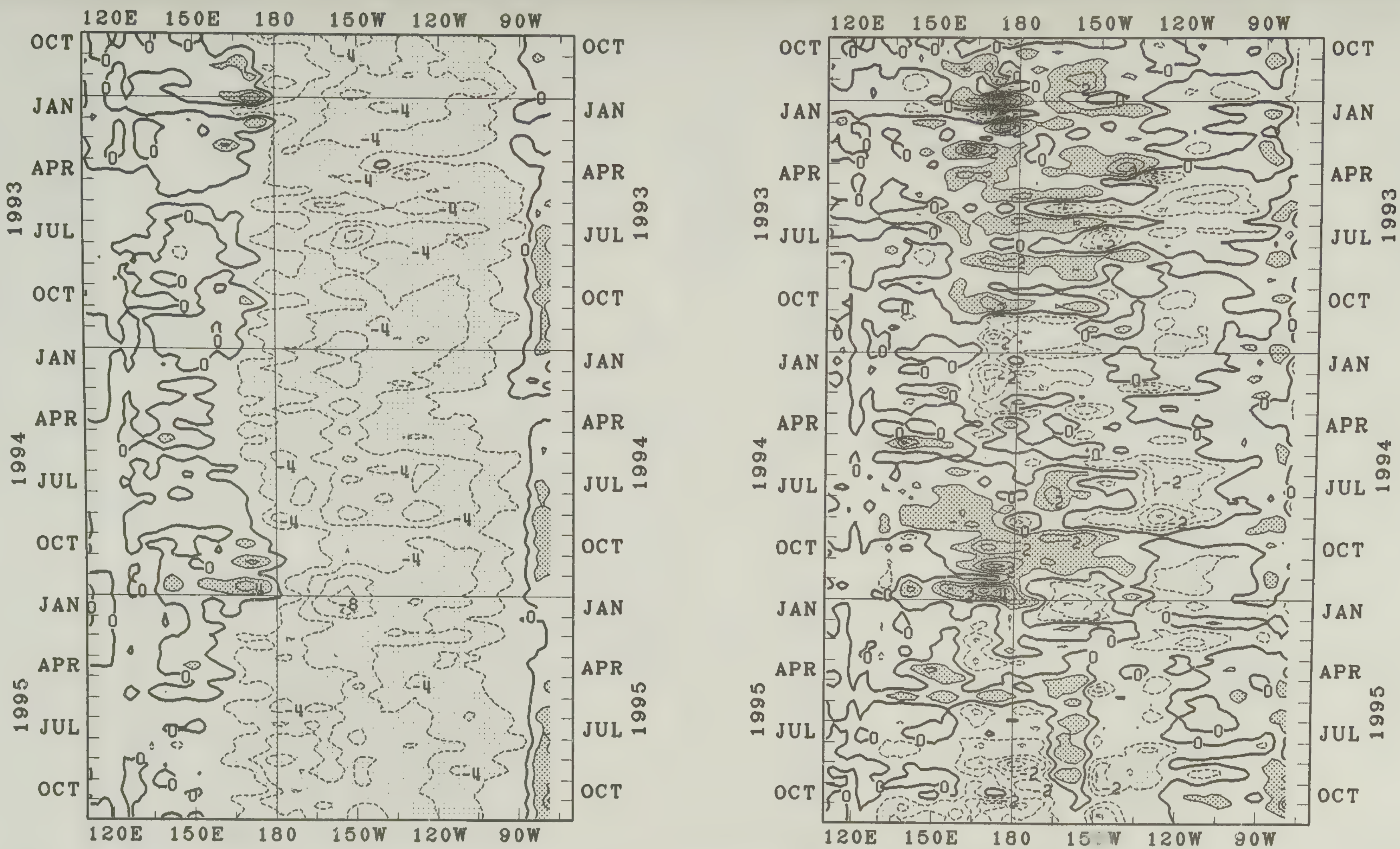
第18図　太平洋の赤道に沿う海洋表層の貯熱量（左）及び偏差（右）の時間－経度断面図

Fig.18 Time–longitude sections of ocean heat content in the upper 260m along the equator (left) and anomalies (right) in the Pacific Ocean. Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 1° C (left) and 0.5° C (right). Values in the left panel greater than 20° C are shaded and values less than 16° C are spotted. Dashed contours in right panel indicate negative anomalies. Anomalies are computed from 1987–1994 base period means.



第19図　太平洋の南緯6度線に沿う海洋表層の貯熱量（左）及び偏差（右）の時間－経度断面図

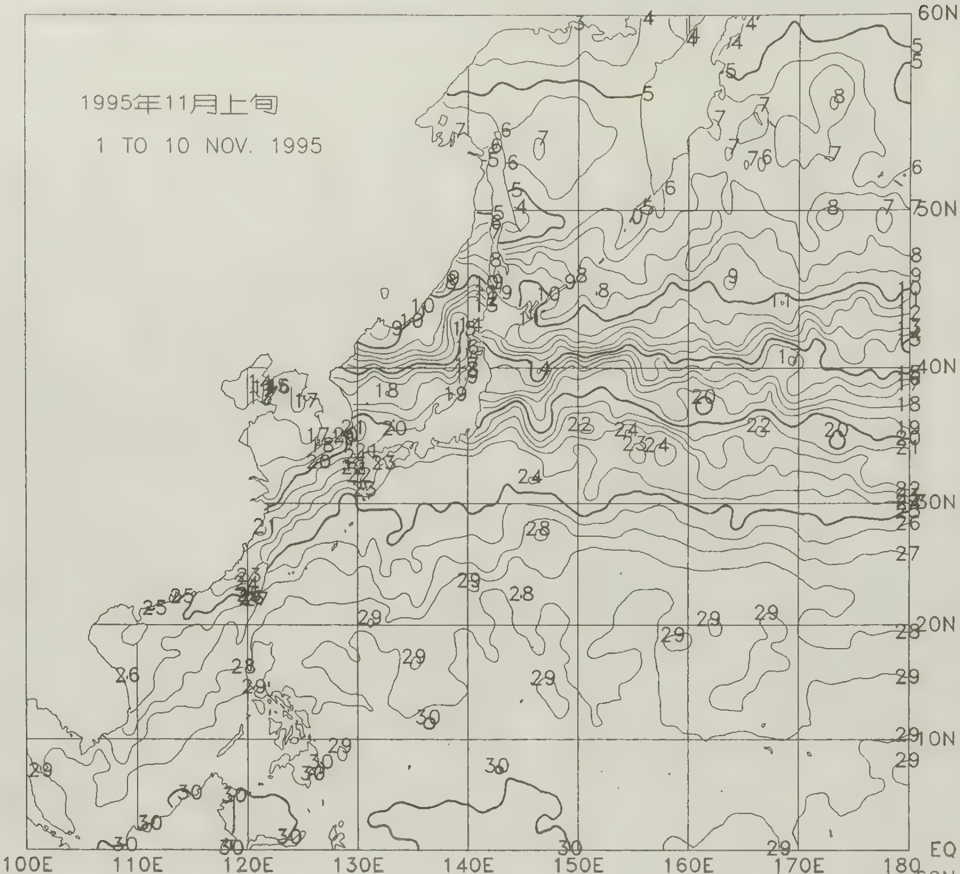
Fig.19 Time–longitude sections of ocean heat content in the upper 260m along 6° S (left) and anomalies (right) in the Pacific Ocean. Data are derived from the Ocean Data Assimilation System of JMA. Contour interval is 1° C (left) and 0.5° C (right). Values in the left panel greater than 20° C are shaded and values less than 16° C are spotted. Dashed contours in right panel indicate negative anomalies. Anomalies are computed from 1987–1994 base period means.



第20図　太平洋の赤道に沿う海面の風応力の東西成分（左）及び偏差（右）の時間－経度断面図

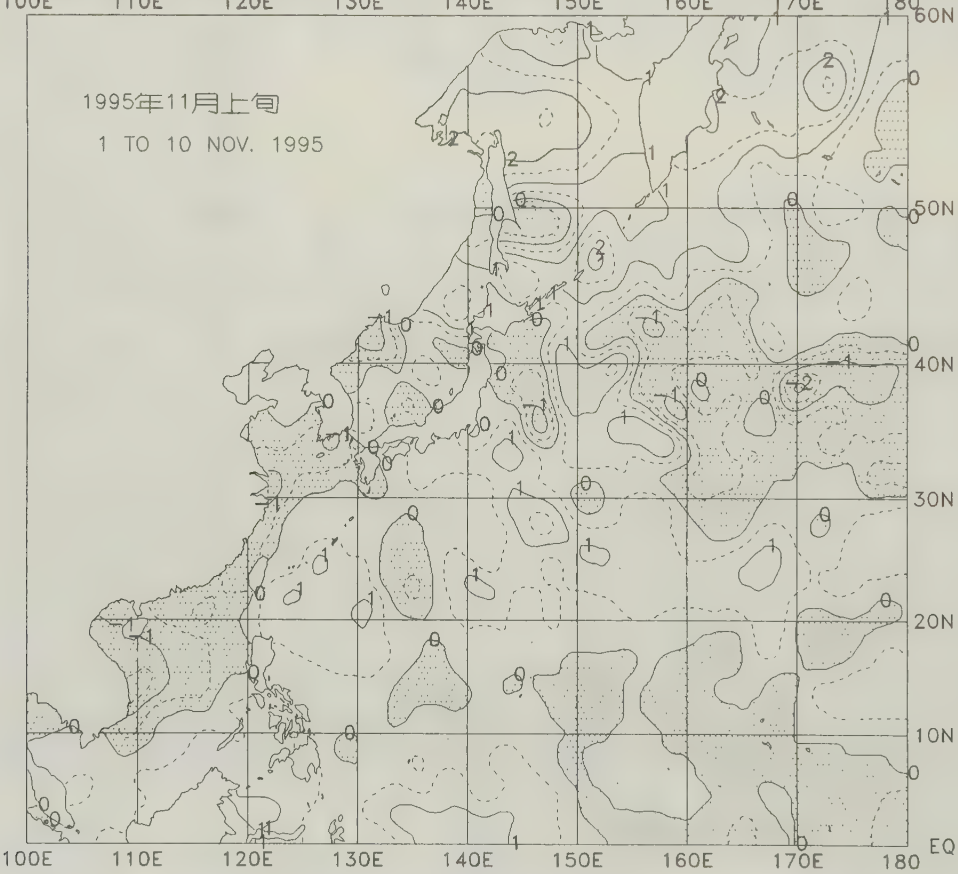
Fig.20 Time–longitude sections of surface zonal wind stress along the equator (left) and anomalies (right) in the Pacific Ocean. Data are derived from the Atmospheric Global Data Assimilation System of JMA. Contour interval is 0.02N/m2 (left) and 0.01N/m2 (right). Dashed contours indicate easterlies (left) and easterly anomalies (right). Anomalies are computed from 1987–1994 base period means.

Ten-day mean SST & Anomalies



旬平均沿岸水温(℃)
Coastal Water Temperature

地点名 (Index Number)	水温 Temp.	偏差 Anom.
石垣島(47918)	25.6	+0.6
御前崎(47655)	18.2	−0.7
八丈島(47678)	22.5	−0.2
小名浜(47598)	18.3	+0.8
宮 古(47585)	16.7	+0.9
江 差(47428)	13.1	-
浜 田(47755)	18.9	-

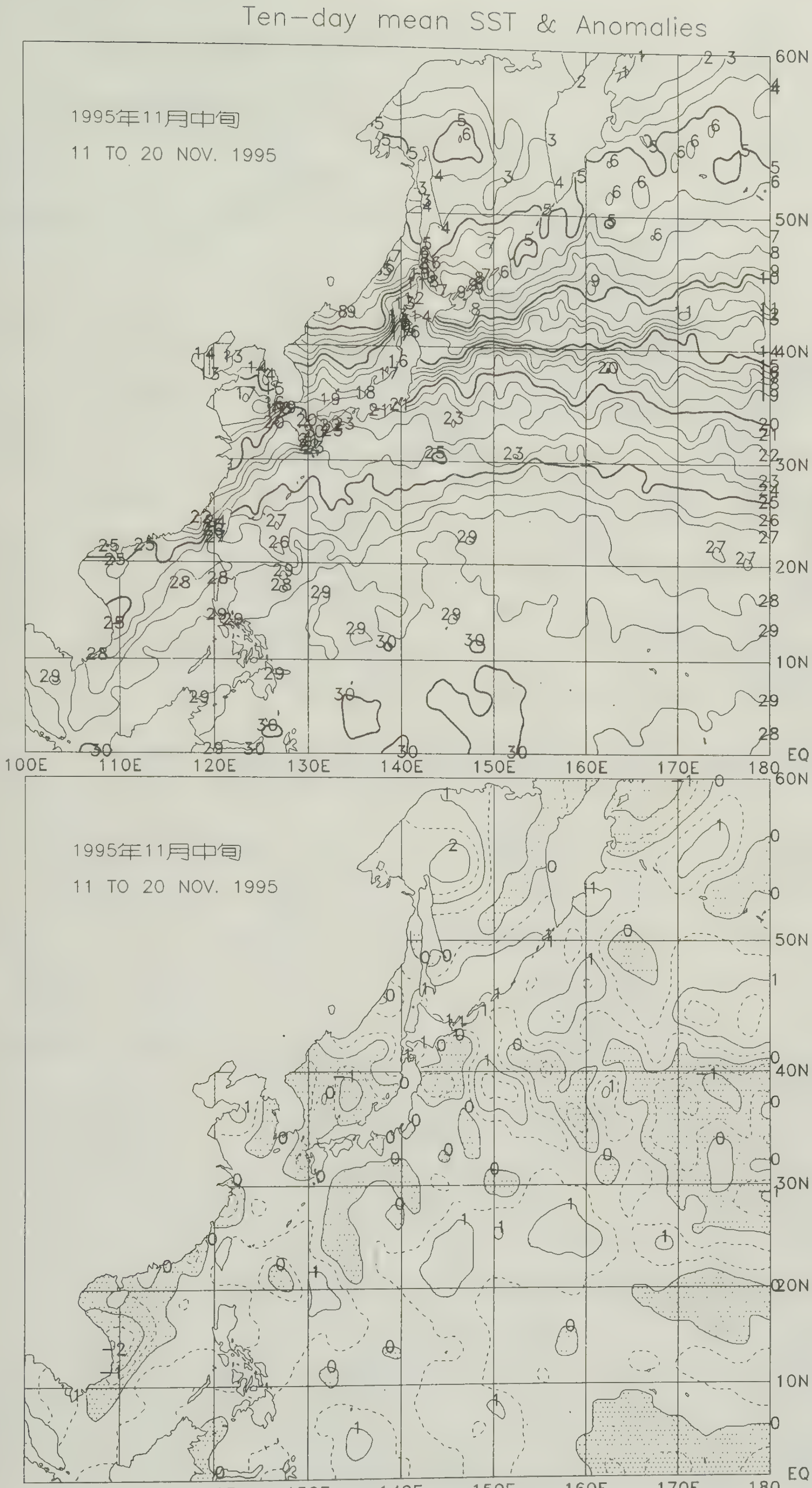


海洋気象ブイロボット
旬平均海面水温(℃)
Ocean Data Buoy SST

日本海	37.9N,134.5E	16.7
四国沖	29.0N,135.0E	24.7
東シナ海	28.2N,126.3E	24.7

第21図 北西太平洋旬平均海面水温図(上)及び偏差図(下)(1995年11月上旬)

Fig.21 Ten-day mean SSTs in the western North Pacific (top) and anomalies (bottom) for the 1st ten-day period in NOV 1995. Anomalies are computed from the JMA climatology (1961−90). Contour interval is 1° C and additional anomaly contours of 0.5° C are shown as broken lines. Negative anomalies are spotted.



旬平均沿岸水温(℃)
Coastal Water Temperature

地点名 (Index Number)	水温 Temp.	偏差 Anom.
石垣島 (47918)	24.7	+0.4
御前崎 (47655)	17.7	+0.4
八丈島 (47678)	21.7	−0.1
小名浜 (47598)	17.0	+0.8
宮　古 (47585)	15.0	+0.1
江　差 (47428)	13.0	−
浜　田 (47755)	17.7	−

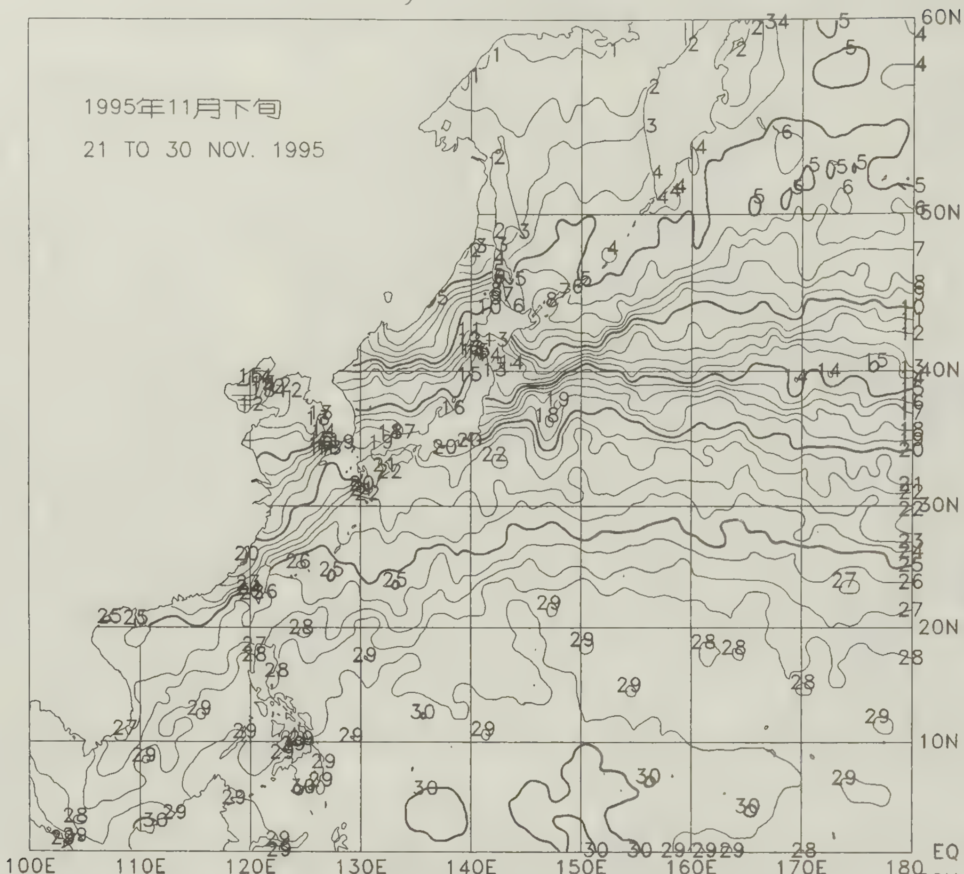
海洋気象ブイロボット
旬平均海面水温(℃)
Ocean Data Buoy SST

日本海	37.9N,134.5E	14.8
四国沖	29.0N,135.0E	23.5
東シナ海	28.2N,126.3E	24.3

第22図 北西太平洋旬平均海面水温図(上)及び偏差図(下)(1995年11月中旬)

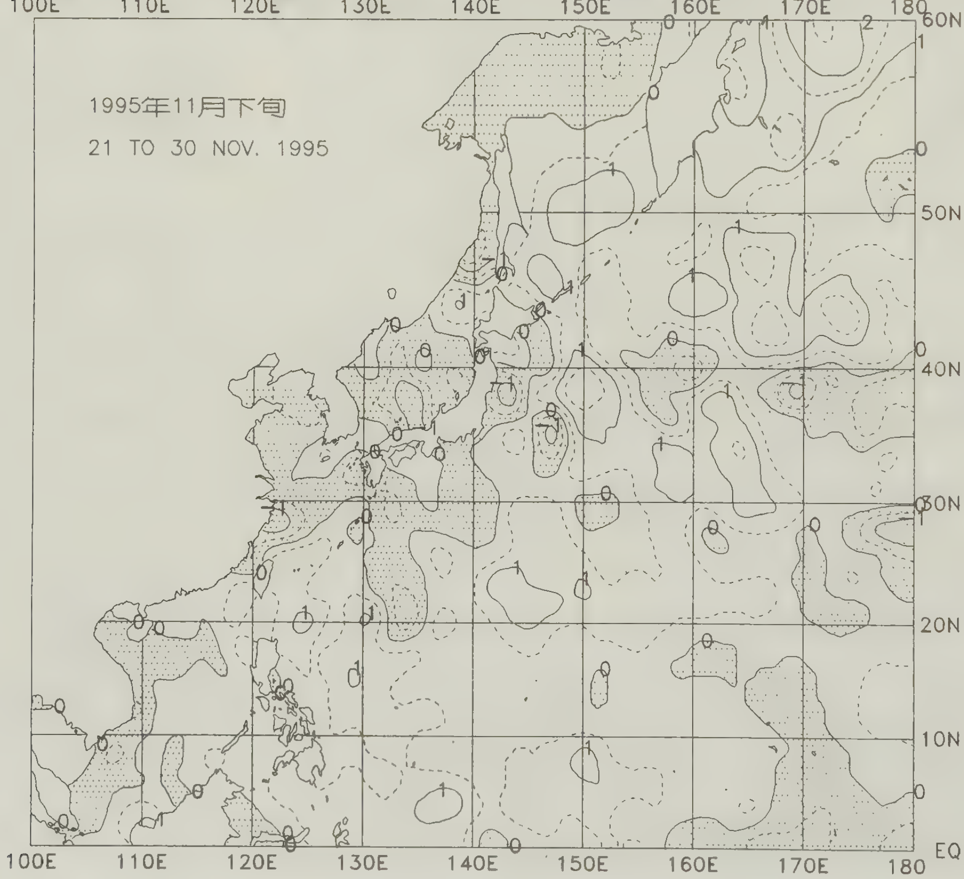
Fig.22 Ten-day mean SSTs in the western North Pacific (top) and anomalies (bottom) for the 2nd ten-day period in NOV 1995. Anomalies are computed from the JMA climatology (1961−90). Contour interval is 1° C and additional anomaly contours of 0.5° C are shown as broken lines. Negative anomalies are spotted.

Ten−day mean SST & Anomalies



旬平均沿岸水温(℃)
Coastal Water Temperature

地 点 名 (Index Number)	水温 Temp.	偏差 Anom.
石垣島 (47918)	24.0	+0.8
御前崎 (47655)	17.1	+1.2
八丈島 (47678)	19.8	−1.1
小名浜 (47598)	16.0	+1.0
宮　古 (47585)	14.1	+0.4
江　差 (47428)	11.5	−
浜　田 (47755)	17.1	−

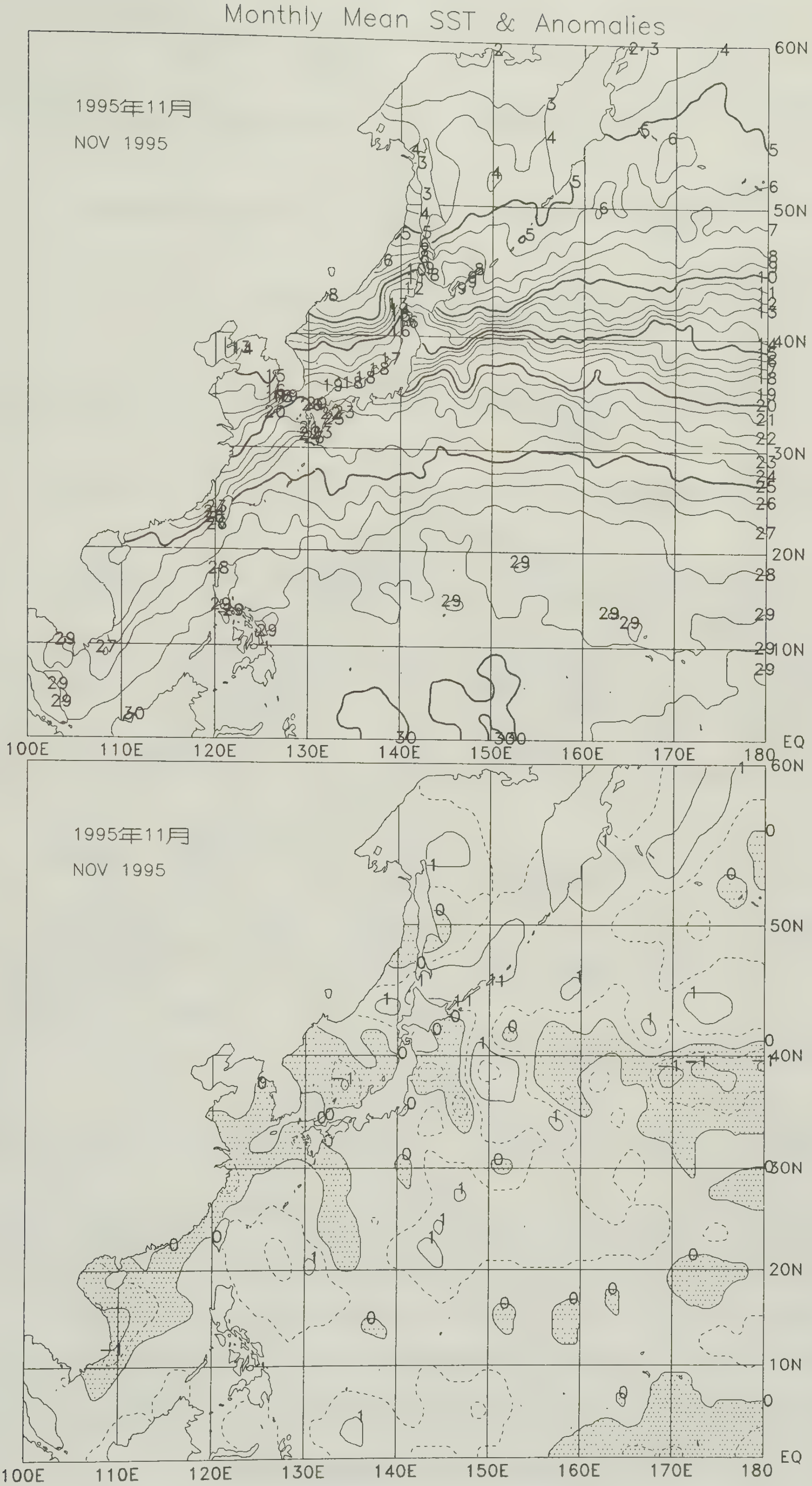


海洋気象ブイロボット
旬平均海面水温(℃)
Ocean Data Buoy SST

日 本 海	37.9N,134.5E	13.4
四 国 沖	29.0N,135.0E	22.9
東シナ海	28.2N,126.3E	23.3

第23図 北西太平洋旬平均海面水温図(上)及び偏差図(下)(1995年11月下旬)

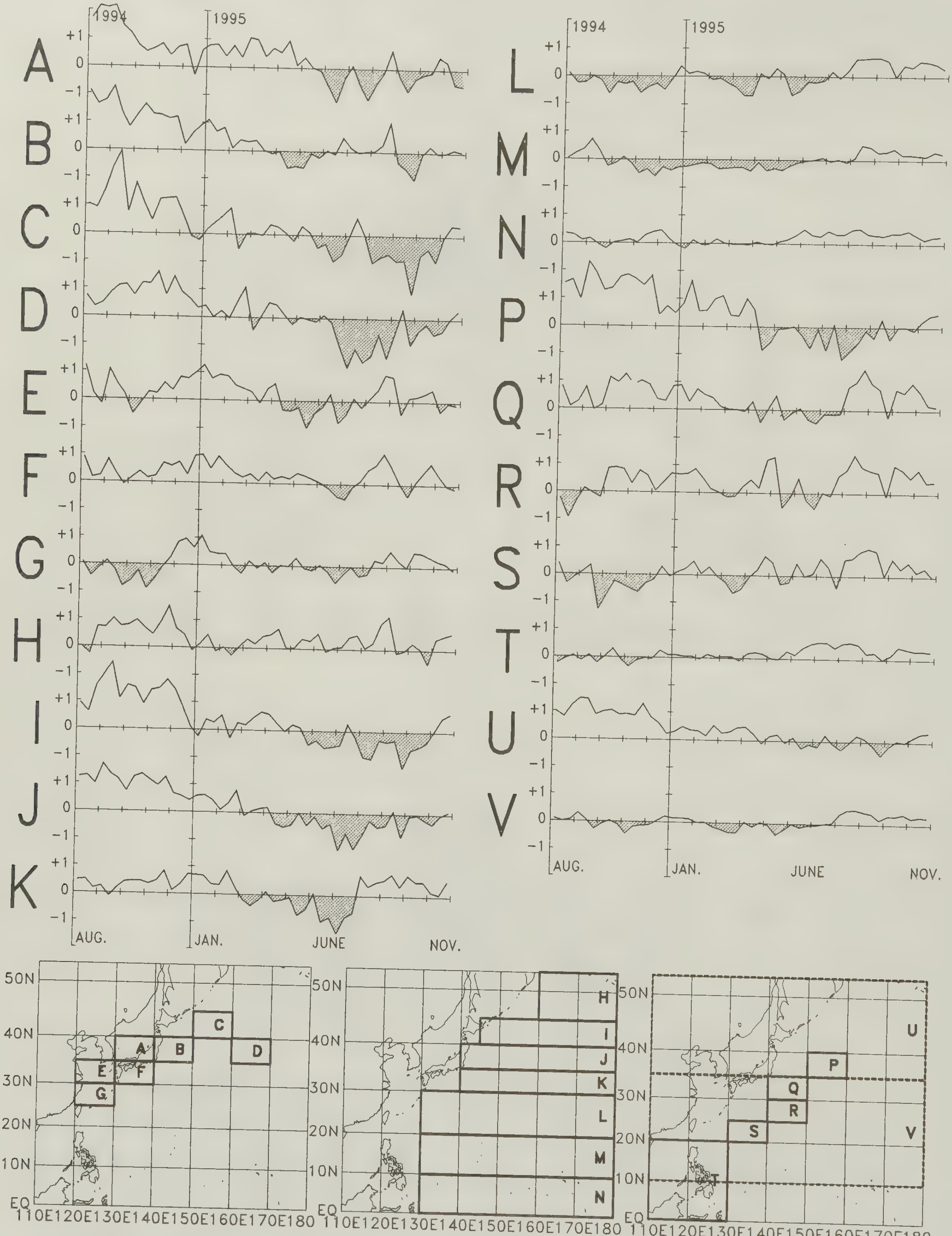
Fig.23 Ten−day mean SSTs in the western North Pacific (top) and anomalies (bottom) for the 3rd ten−day period in NOV 1995. Anomalies are computed from the JMA climatology (1961−90). Contour interval is 1° C and additional anomaly contours of 0.5° C are shown as broken lines. Negative anomalies are spotted.



第24図 北西太平洋月平均海面水温図(上)及び偏差図(下)(1995年11月)

Fig.24 Monthly mean SSTs in the western North Pacific (top) and anomalies (bottom) for NOV 1995. Anomalies are computed from the JMA climatology (1961−1990). Contour interval is 1° C and additional anomaly contours of 0.5° C are shown as broken lines. Negative anomalies are spotted.

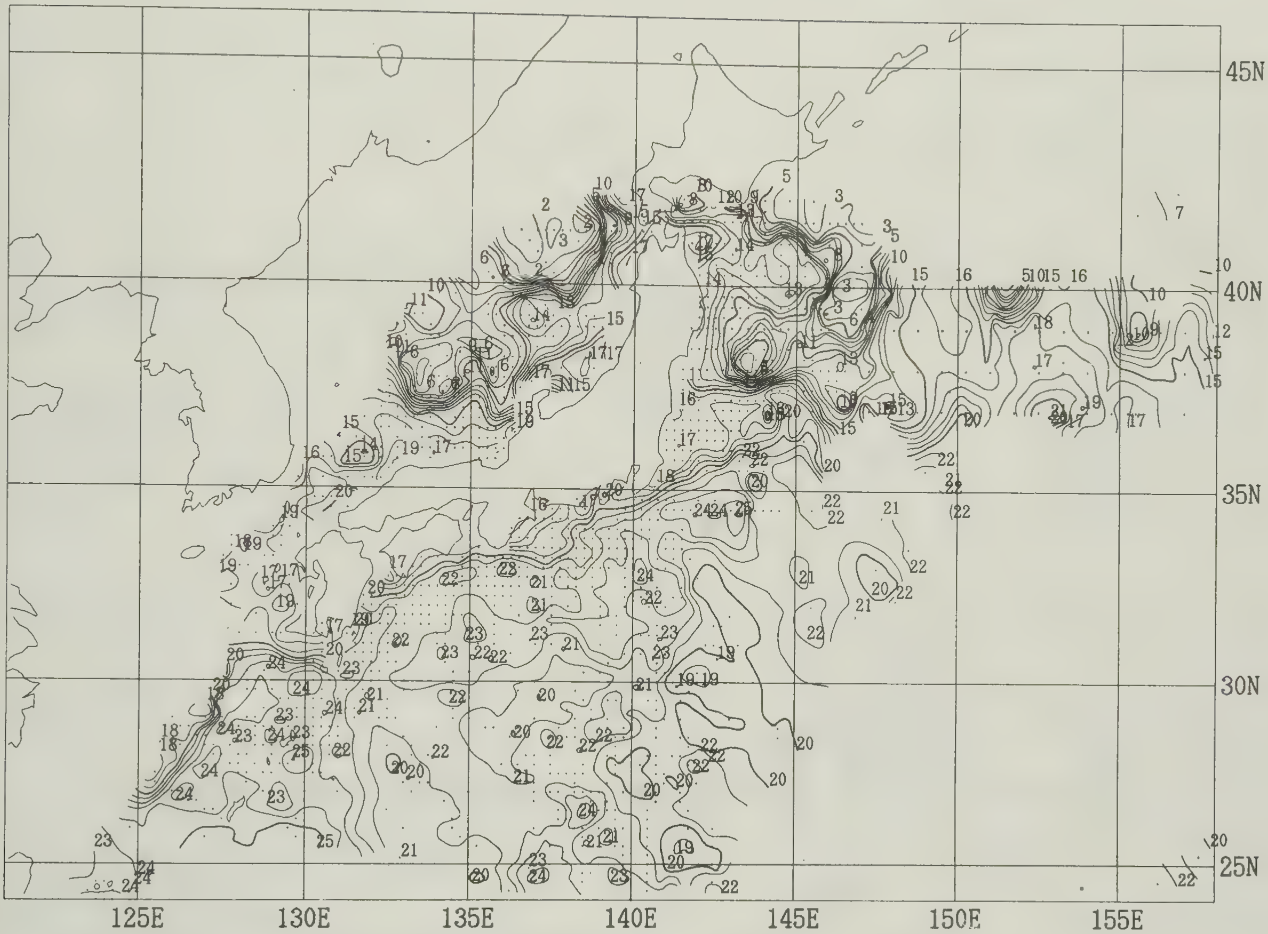
Time Series of Area Mean SST in the Western North Pacific



第25図　北西太平洋旬平均海面水温平年偏差時系列図

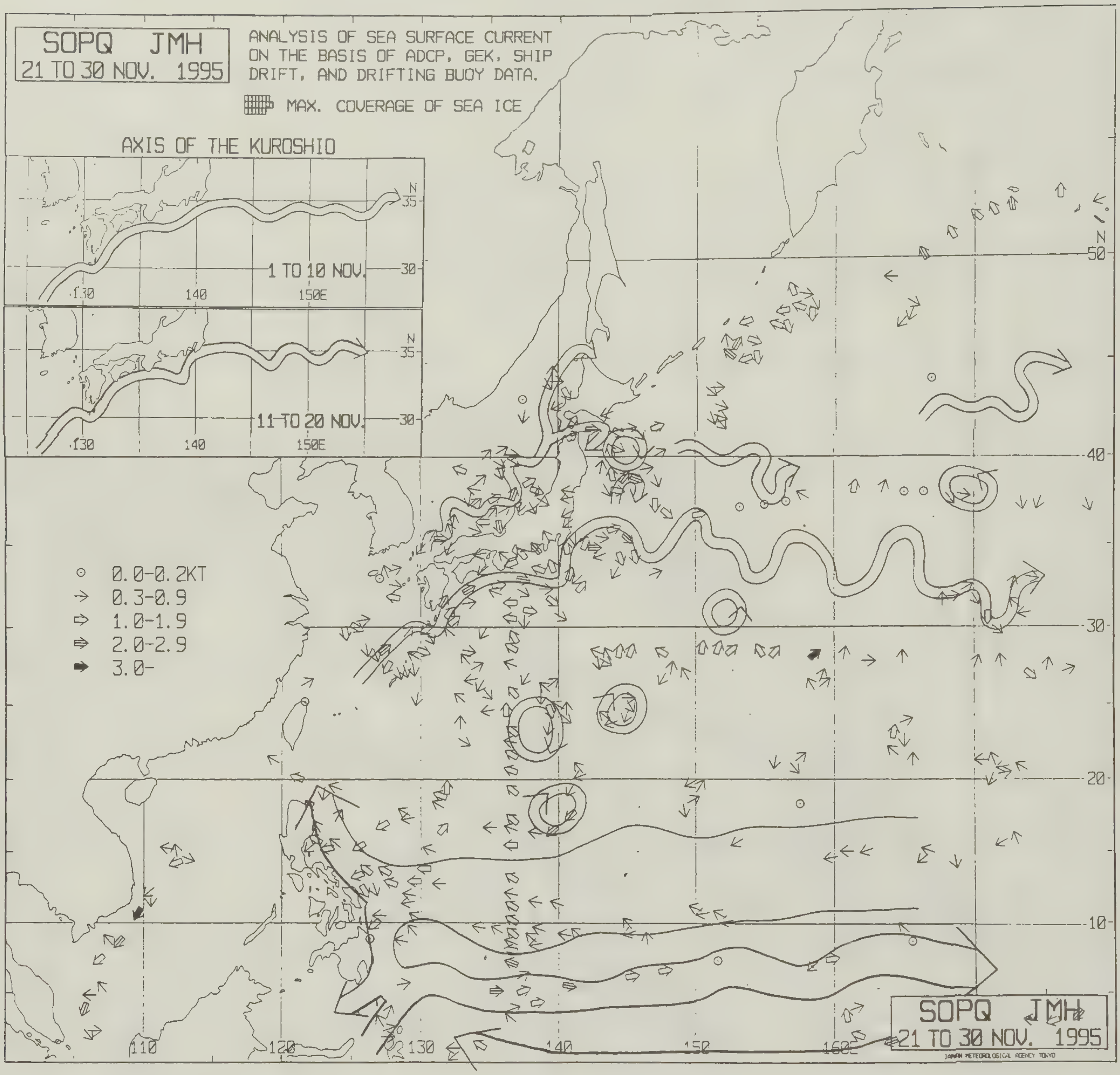
Fig.25 Time series of the ten-day mean sea surface temperature anomalies (°C) in the western North Pacific for the areas indicated at the bottom. Negative anomalies are shaded. Anomalies are computed from the JMA climatology (1961–90).

100m Temperatures in Seas Adjacent to Japan



第26図　日本近海表層水温(深さ100m)図 (1995年11月)

Fig.26　Subsurface (100m) temperatures in seas adjacent to Japan for NOV 1995. Contour interval is 1° C.　Observation points are denoted by dots.



第27図　北西太平洋海流図（1995年11月下旬）

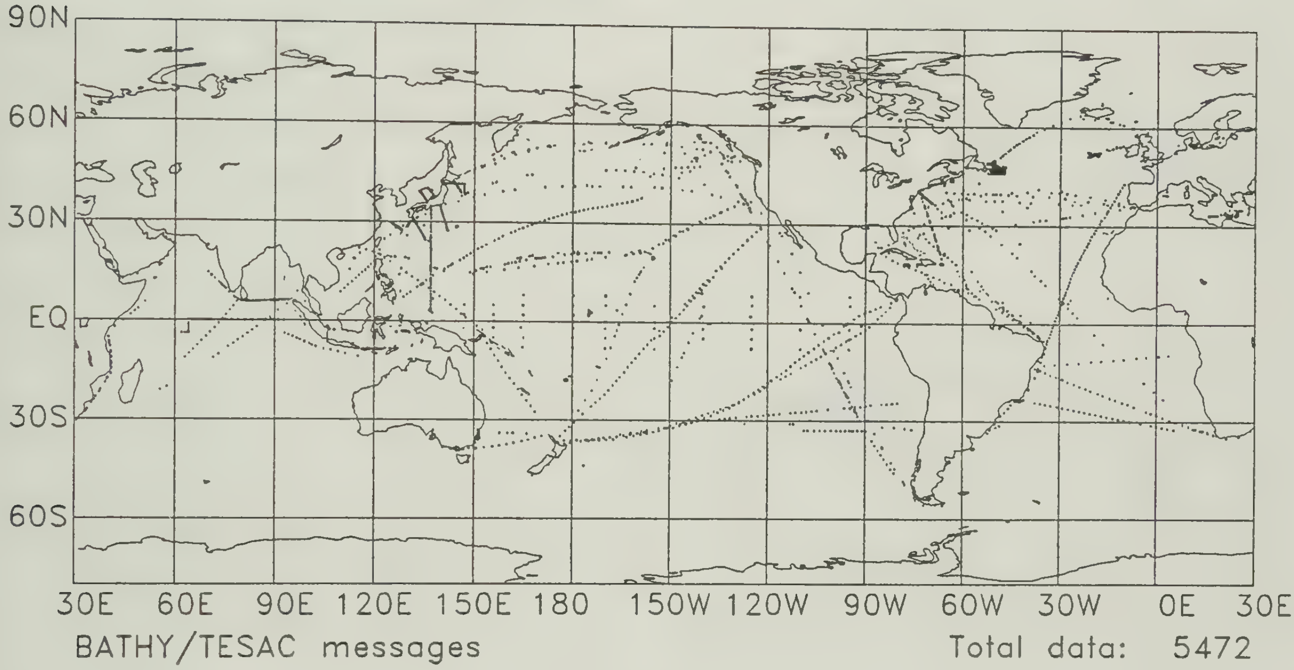
Fig.27 Analysis of the sea surface current in the western North Pacific for the 3rd ten-day period in NOV 1995. Small arrows indicate sea surface currents measured with acoustic Doppler current profilers, GEKs deployed in research vessels, and ship drift by merchant ships/drifting buoys during the month. Major currents such as the Kuroshio and the North Equatorial Current are denoted by larger open arrows.

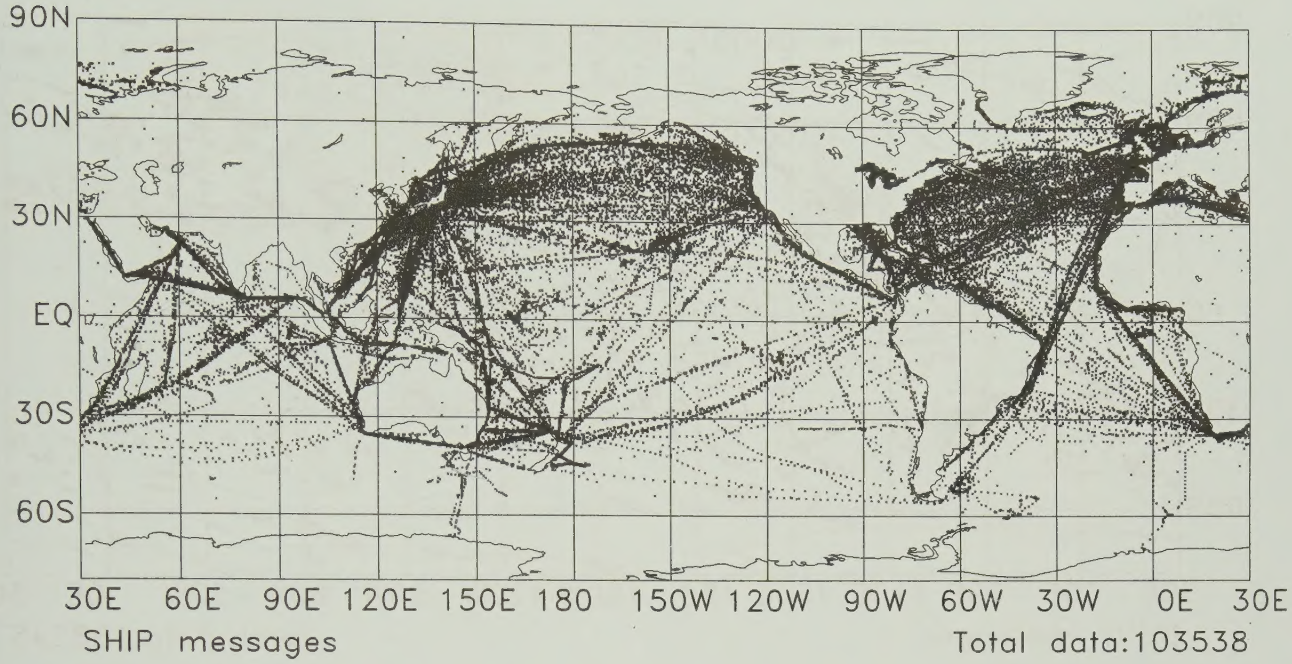
訂正

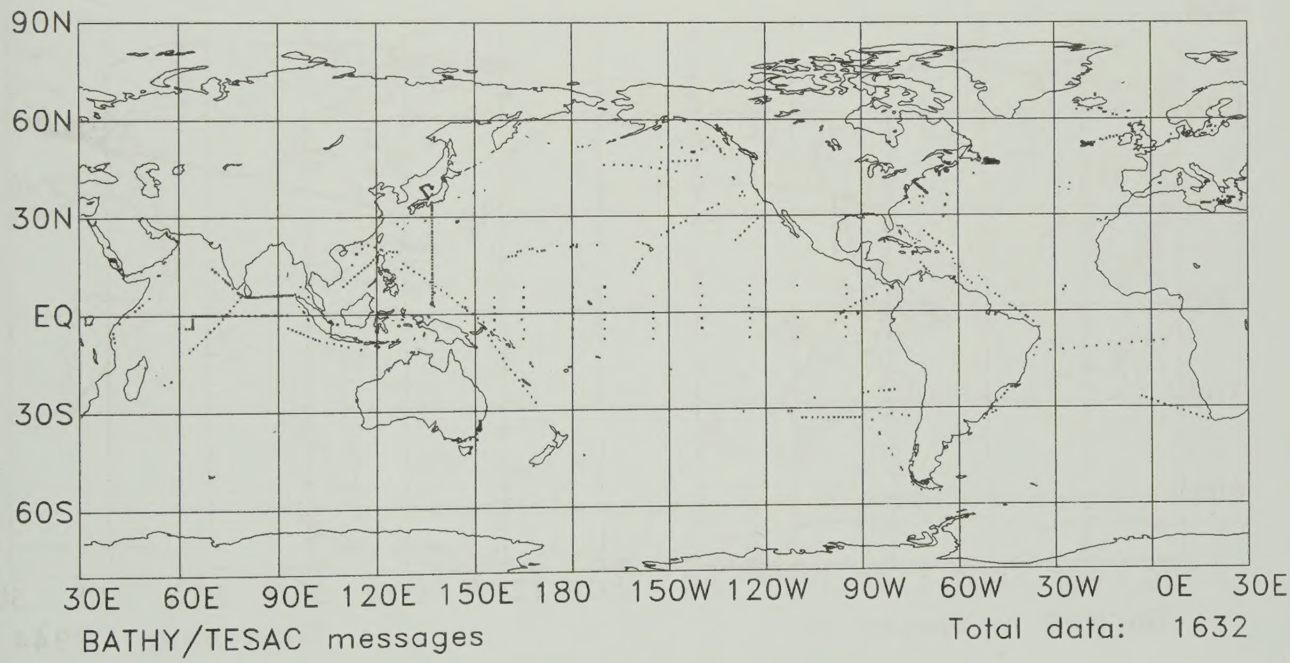
気象庁海洋月報 November 1995 (No.35) のP.29 の第28-1 図のBATHY/TESAC 測点分布図を下図に差し替えて下さい。

Correction

Please replace the lower panel of figure 28-1 on page 29 in Monthly Ocean report, November 1995 (No.35) with the chart below.

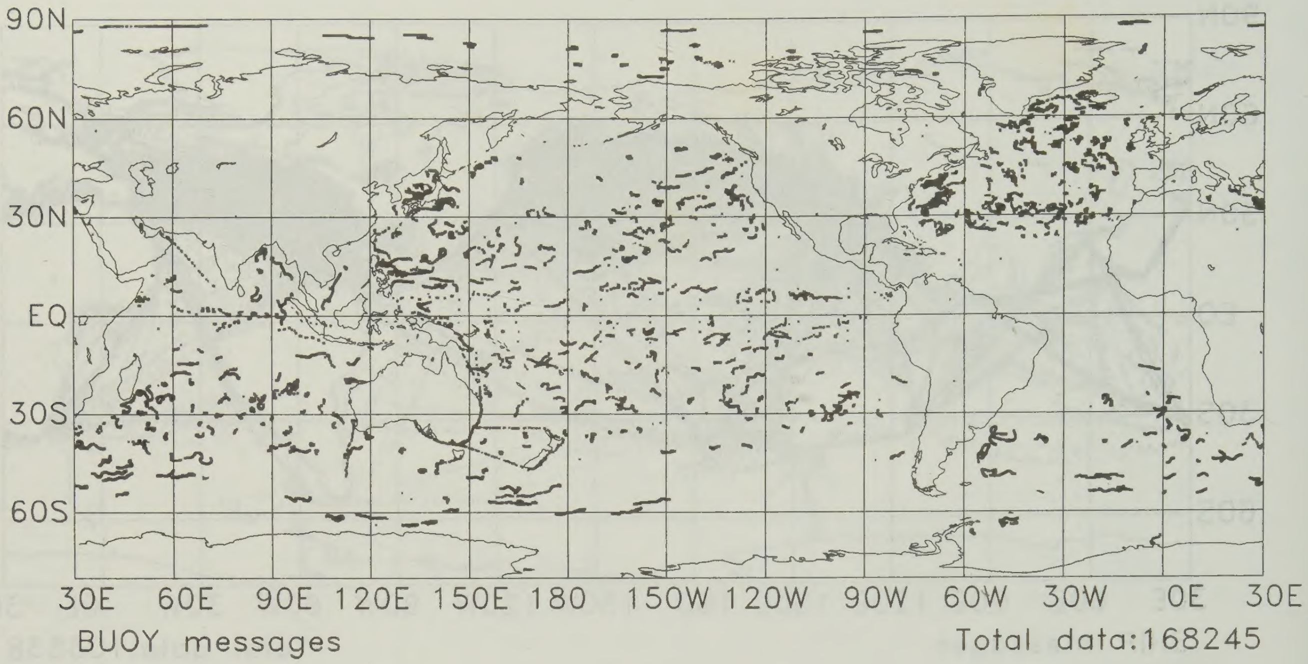


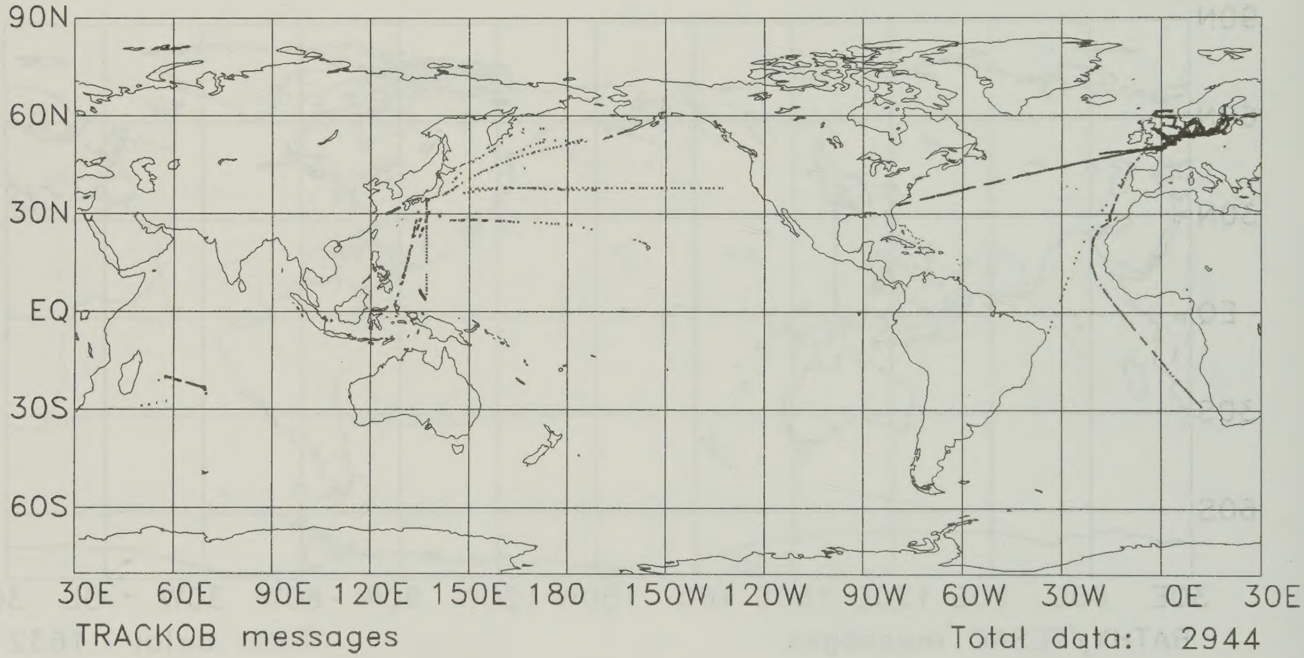




第28-1図　測点分布図(1995年11月)

Fig.28−1　Geographical distribution of SHIP messages (SST data, top) and BATHY/TESAC messages (subsurface temperature data, bottom) for NOV 1995.





第28-2図　測点分布図(1995年11月)

Fig.28-2 Geographical distribution of BUOY messages (buoy drift and SST data, top) and TRACKOB messages (ship drift and SST data, bottom) for NOV 1995.

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Monthly Ocean Report

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